USER'S MANUAL

HITACHI
Inspire the Next

Colour LCD Television

Model Name

L37X01U
L37X01E

USER'S MANUAL
MANUEL UTILISATEUR
BEDIENUNGSANLEITUNG
MANUAL DEL USUARIO
MANUALE D'USO
BRUKSANVISNING
BRUKERHÅNDBOK
BRUGERVEJLEDNING
KÄYTTÖOPAS
ΕΓΧΕΙΡΙΔΙΟ ΧΡΗΣΤΗ
GEBRUIKSAANWIJZING

This is the image of the model L37X01U.

READ THE INSTRUCTIONS INSIDE CAREFULLY.
KEEP THIS USER'S MANUAL FOR FUTURE REFERENCE
For future reference, record the serial number of your television.
SERIAL NO. _____
This serial number is located on the rear of the television.

Ver. 1

ENGLISH

USER'S MANUAL

Thank you for purchasing the Hitachi LCD Television.
Please read this user’s manual carefully before operating this product.
To ensure proper operation, please read and follow ALL the instructions, especially the “IMPORTANT SAFETY INSTRUCTIONS” and “SAFETY PRECAUTIONS”.
Please keep this user's manual for future reference.

Ver. 1

CONTENTS

IMPORTANT SAFETY INSTRUCTIONS 2
INTRODUCTION 3
About This Manual 3
Trademark Credits 3
About Software 3
Information for users applicable in European Union countries 3
SAFETY PRECAUTIONS 4
Important for United Kingdom 4
About the Symbols 4
Cleaning and Maintenance 7
ABOUT LCD PANEL 8
Common Phenomena of LCD Panel 8
OVERVIEW 9
SUPPLIED ACCESSORIES 9
COMPONENT NAMES 10
Main Unit 10
Remote Control 11
PREPARATION 12
Remote Control Batteries Installation 12
Handling the Remote Control 12
Caution When Moving Main Unit 12
Safety Precaution on Main Unit Installation 13
Anti-Tumble Measures 13
CONNECTION 14
Terminal Positions 14
Connecting Procedure 15
BASIC OPERATION 23
Power On/Off 23
Easy Setup 24
Channel Selections 25
Volume Up/Down 26
Mute 26
Input Switching to DTT/TV/AV1~5/HDMI1~3/RGB 27
Input Signal Screen Display 28
MENU OPERATION 29
How to use On-Screen Display (OSD) system 29
MAIN MENU OPERATION 30
Initial Setup Menu 30
Channel Manager Menu (TV mode) 32
Channel Manager Menu (DTT mode) 33
Configuration Menu 34
Picture Menu (TV/AV mode) 36
Picture Menu (RGB mode) 39
Picture Menu (Photo mode) 40
Audio Menu 42
FUNCTION MENU OPERATION 44
Basic Mode 44
Guide Mode* 46
Programme Search Mode* 47
Photo Input Mode 48
FEATURES 49
Channel List (TV mode) 49
Channel List (DTT mode) 50
Electronic Programme Guide (EPG)* 52
Programme Timers 53
Setting Favourite Mode 55
Information Banner* 55
Audio Language* 56
DVB Subtitle and DVB Subtitle Language* 56
Analogue/Digital Teletext 57
MHEG Digital Teletext* 58
Size Switching 59
Multi Picture Mode 62
Picture Freezing 64
Photo Input Function 65
Power Swivel 70
Audio Switching 71
Power Save Mode 72
DVD Player / STB Selection 73
TROUBLESHOOTING 74
When Following Messages Appear on Screen 74
Symptom and Check List 74
PRODUCT SPECIFICATIONS 77
Signal Input 78
Recommended Signal List 79
LICENSE AGREEMENTS 80
End User License Agreements for Operating System Software 80

* The items indicated by * are only for DTT mode.

IMPORTANT SAFETY INSTRUCTIONS

- Read this instruction thoroughly.
- Retain this instruction for future reference.
- Heed all warnings and cautions to prevent possible danger.
- Follow all instructions. Improper handling could cause personal injury and/or serious damage to the unit that may shorten its service time.
- Do not block any ventilation openings.
- Install the product in accordance with the manufacturer's instructions.
- Before calling for the technical support or service technician, read "TROUBLESHOOTING" (74 ~ 76) to determine the symptoms when problems occur during installation or operation of the product.
- If serious problems happen (such as smoke or an abnormal odour from the unit), turn off the Main Power, unplug the Power Cord, and then, contact your local dealer immediately.

INTRODUCTION

Thank you for purchasing the Hitachi LCD Television. We hope that you will enjoy the great performance of this product.
This LCD Television has been designed to meet the international standards. However, it could cause personal injuries and property damage if improperly handled. In order to prevent potential danger and obtain maximum benefit from your set, please observe the following instructions when installing, operating, and cleaning the product. Please keep this manual for future reference, and record the serial number of your set in the space provided on the front cover page of this manual.

About This Manual

- The information in this manual is subject to change without notice.
- This manual has been created with extra care. In case that you have any comments or questions regarding this manual, please contact your local dealer or our Customer Service Centre.
- Before operating this set, please fully understand the prerequisite such as specifications or constraints of the hardware and software. We are not responsible and have no liability for any loss, damage or injury as a result of misuse.
- Reproduction, copying, use, modification, and/or transmission in whole or in part of this manual are prohibited without any prior written permission.
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- WOW, SRS and (●) symbol are trademarks of SRS Labs, Inc.
  WOW technology is incorporated under license from SRS Labs, Inc.
- SD Logo is a trademark.
- HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC.
- DVB is a registered trademark of the DVB Project. This logo indicates that the product is compliant with European Digital Broadcasting.
- FREEVIEW and the FREEVIEW logo are trade marks of DTV Services Ltd and are used under license. FREEVIEW Logo © DTV Services Ltd 2002. This logo indicates that the product is set up to view digital terrestrial TV.
- The “HD ready” logo is a trademark of EICTA.
- Manufactured under license from Dolby Laboratories. “Dolby” and the double-D symbol are trademarks of Dolby Laboratories.

Even if no special notation has been made of company or product trademarks, these trademarks have been fully respected.

About Software

You may not alter, decompile, disassemble, decrypt, or otherwise reverse- engineer the Software installed in this product, which are prohibited by law.

Information for users applicable in European Union countries

This symbol on the product or on its packaging means that your electrical and electronic equipment should be disposed at the end of life separately from your household wastes. There are separate collection systems for recycling in EU.
For more information, please contact the local authority or the dealer where you purchased the product.

SAFETY PRECAUTIONS

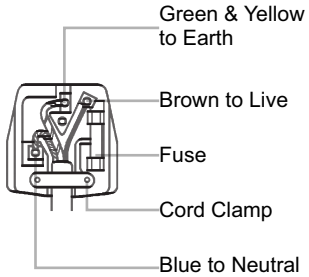
For your safety, please read the following precautions carefully before using this product. Improper use would cause serious personal injuries and/or damage to your property or this product.

Important for United Kingdom

IMPORTANT FOR UNITED KINGDOM
WORDING FOR CLASS I EQUIPMENT INSTRUCTION BOOKS AND LABELS
The mains lead on this equipment is supplied with a molded plug incorporating a fuse, the value of which is indicated on the pin face of the plug. Should the fuse need to be replaced, an ASTA or BSI approved BS 1362 fuse must be used of the same rating. If the fuse cover is detachable never use the plug with the cover omitted. If a replacement fuse cover is required, ensure it is of the same colour as that visible on the pin face of the plug. Fuse covers are available from your dealer.
DO NOT cut off the mains plug from this equipment. If the plug fitted is not suitable for the power points in your home or the cable is too short to reach a power point, then obtain an appropriate safety approved extension lead or consult your dealer.
Should it be necessary to change the mains plugs, this must be carried out by a competent person, preferably a qualified electrician.
If there is no alternative to cutting off the mains plug, ensure that you dispose of it immediately, having first removed the fuse, to avoid a possible shock hazard by inadvertent connection to the mains supply.

WARNING: THIS EQUIPMENT MUST BE EARTHED
IMPORTANT
The wires in the mains lead are coloured in accordance with the following code :
Green and Yellow = Earth, Blue = Neutral, Brown = Live.
As these colours may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

The wire which is coloured GREEN and YELLOW must be connected to the terminal in the plug which is marked with the letter E or by the earth symbol ⏚ or coloured GREEN or GREEN and YELLOW.
The wire coloured BLUE must be connected to the terminal marked with the letter N or coloured BLUE or BLACK. The wire coloured BROWN must be connected to the terminal marked with the letter L or coloured BROWN or RED.



About the Symbols

The following are the symbols used in this manual and affixed on the unit itself. Please fully understand the meanings of the symbols before reading the instructions in this section.

⚠ **WARNING**	Never ignore the instruction. There are risks of serious injuries or possible death to the user.
⚠ **CAUTION**	Do not ignore the instruction. There are possibilities of personal injuries and/or property damage.

Other Symbols	
	The triangle with illustration is intended to alert the users that there are possibilities of fire, explosion, or high temperature if the product is handled improperly. Each illustration within the triangle specifies the contents in detail. (The figure on the left is an example.)
	The circle with diagonal line and illustration indicates a prohibited action (the symbol to the left indicates that disassembly is prohibited.)
	This symbol indicates a compulsory action. The contents will be clearly indicated in an illustration or nearby (the symbol to the left indicates that the power plug should be disconnected from the power outlet).

⚠ WARNING

There is a risk of fire, electric shock, or serious injury.

■ **Unplug the power cord immediately when serious problems occur.**
Serious problems such as
- Smoke, abnormal odor or noise is emitted from the product.
- No picture, no sound or distorted picture on the display.
- Foreign objects (such as water, metals etc.) get inside the unit.

Do not continue using the product under these abnormal conditions.
Turn off the Main Power, unplug the Power Cord, and contact your dealer immediately.
For your safety, never try to repair the product by yourself.

Disconnect the plug from the power outlet.

SAFETY PRECAUTIONS (continued)

⚠ WARNING

There is a risk of fire, electric shock, or serious injury.

■ **Do not insert liquids or any foreign objects (such as metals or flammable items) inside the unit.**
- In case it happens, turn off the main power, unplug the Power Cord, and contact your dealer immediately.
- Use special caution when younger children are around the unit.

■ **Do not remove cover, or modify the product.**
- High-voltage components are installed inside of the unit. Removing covers can expose you to high voltage, electrical shock, and other dangerous conditions.
- Contact your local dealer to perform servicing such as inspection, adjustment, or repair work.

Do not disassemble

■ **Install the unit in a sensible place where it does not expose anyone to danger or injury.**
- Impact with the edge of the unit could cause injury.

■ **Do not place any objects on top of the unit.**

Objects such as
- Liquid containers (vase, fish tank, flowerpot, cosmetics or liquid medicine).
- If water or any liquid spill onto the unit, it may cause short-circuit and result in fire or electrical shock.
- In case that it happens, turn off the Main Power, unplug the Power Cord, and contact your dealer immediately.
- Do not place anything heavy on top of the unit.
- Do not climb on or hang from the unit.
- Do not let your pets get on top of the unit.

■ **Do not install the unit in an unsuitable place.**
- It could cause a malfunction or in extreme cases danger of electric shock. Places where high moisture is likely such as bathrooms or shower rooms, close to windows, or outside where rain, snow or other inclement conditions could occur should be avoided. Please also avoid installing the unit in a position where fumes from a Hot Spring could come into contact with it.

■ **Unplug this unit during lightning storm.**
- To reduce the risk of electrical shock, do not touch the product when starts lightning.

Disconnect the plug from the power outlet.

■ **Do not do anything that may damage the Power Cord.**
- Do not damage, modify, twist, forcibly bend, heat, or pull excessively the Power Cord.
- Do not place heavy objects (including the unit itself) on top of the Power Cord.
- If the Power Cord is damaged, contact your dealer for repairs or exchange.

■ **Use only with designated power supply voltage.**
- To prevent the risk of fire and electrical shock, operate this product only with the power supply voltage indicated on the unit.

■ **Beware not to drop or have any impact on the unit.**
- Take extra care whilst moving the unit.
- There is no protection glass on the surface of the LCD panel. Thus, do not press the panel surface with your fingers or hands. Or do not hit anything against the unit. These actions would damage the LCD cells or the panel surface and could cause the failure or personal injuries.
- In case that you drop the unit or the cabinet is damaged, turn off the Main Power, unplug the Power Cord and contact your local dealer immediately.
- Continuing use of the product with above conditions may cause fire or electrical shock.

■ **Clean dust or metals on or around the blade of the power plug regularly.**
- Continuing use of the product with above condition may cause fire or electrical shock.
- Always unplug the Power Cord first, and clean the blades with a dry cloth.

■ **Do not place the unit on an unstable surface.**

Unstable places such as
- Tilted surface or shaky rack, table, stand or trolly.
- If the unit falls down, it could cause personal injury.

SAFETY PRECAUTIONS (continued)

⚠ CAUTION

■ **Do not place the unit at a dusty place.**
It could cause malfunction.

■ **Do not cover or block any ventilation holes on the product.**
The unit would overheat, and it could cause fire or damage the product which may shorten its service life.
- Install the product in accordance with the instructions in this manual.
- Do not place the unit with ventilation side down.
- Do not install the unit on the carpet or bedclothes.
- Do not cover the unit with table cloth etc.

■ **Be sure to ground the earth cable correctly.**
- Especially when you use Power Cord adapter, be sure to connect the earth cable to the ground terminal. Incorrect connection would cause fire or electrical shock.
- For your safety, always make sure to unplug the Power Cord before connect or disconnect the earth cable.

■ **Connection to a Cable Distribution System is to be provided through a galvanic isolator.**
- Failure to do so may cause a fire.

■ **Follow the Anti-tumble measures in this manual.**
- If the unit tumbles over, there is a risk of personal injury and possible death. Also, it would damage the product seriously.

■ **Do not install this product near the medical devices.**
- To prevent malfunction of the medical devices, do not use this product and medical devices in the same room.

■ **Do not place a CRT-based television near the speakers of the LCD Television.**
- It could cause the partial discolouration or blurring of the image on a CRT-based television. Please install it away from the speakers of the unit.

■ **Disconnect all of the external connection cables and detach the anti-tumble measures before moving the unit.**
- It may cause fire, electrical shock, or personal injuries.

■ **Connect the power plug securely.**
- Improper connection will cause overheating and may result in fire.
- Do not touch the blades of the plug whilst connecting it to the wall socket. It could cause electrical shock.
- If the plug is not fitted for the wall socket, contact your dealer for replacement.

■ **Do not handle the Power Cord with wet hands.**
- It could result in electrical shock.

■ **Do not pull the cord when you unplug the Power Cord.**
- It may damage the cord and could result in fire or electrical shock.
- Hold the plug when disconnecting it.

■ **Unplug the Power Cord when you do not intend to use the product for long periods of time.**

■ **Handle the batteries properly.**
- Improper or incorrect use of the batteries may cause corrosion or battery leakage, which could cause fire, personal injury or damage to property.
- Use only the types of the batteries which are indicated in this manual.
- Do not install new batteries with used ones.
- Install the batteries correctly by following the polarity (+ and -) indications on the battery compartment.
- Do not dispose of the used batteries as domestic waste. Dispose of them in accordance with the local regulations.

SAFETY PRECAUTIONS (continued)

⚠ CAUTION

■ **Adjust the headphone volume properly.**
- Excessive sound pressure from headphones might cause hearing loss.

■ **Wipe the front bezel with the soft cloth.**
- As the glossy part of the front bezel might be easily damaged, be sure to use the soft cloth.

PRECAUTIONS

■ **Do not install areas where it will be subjected to high temperatures.**

It could damage the cabinet or parts of the product.
- Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus that produce heat.
- Keep the unit out of direct sunlight. It could increase the temperature of the unit and cause malfunction.

■ **Viewing Advice**
- The lighting of the environment in which the product is used should be appropriate. Too bright or dark environments are not good for your eyes.
- Take time to relax your eyes occasionally.
- When you use this product, view from a distance equal to 3 to 7 times the height of the screen. This is the best viewing distance in order to protect your eyes against eyestrain.
- Adjust the volume to an appropriate level, especially during the night.

■ **When transporting this product:**
- When the product needs to be transported due to moving or repair, use the carton box and buffer material that came with this product.
- Always transport the product upright, otherwise it could damage the panel glass or degrade the phosphors of the panel.

■ **Keep radio away from this unit whilst in use.**

This unit is designed to meet the international EMI standards due to prevent radio interference. However, the unit may generate noise in the radio.
- If the noise is heard on radio, please try the following actions.
  - Adjust the direction of the radio antenna in order not to receive the interference from the unit.
  - Keep the radio away from the unit.
  - Use coaxial cable for the antenna.

■ **About infrared communication devices:**
- The infrared communication devices such as cordless microphones or cordless headphones may not operate properly around the unit. It is because of communication failure. Please note that this is not malfunction.

■ **When you dispose of this product at the end of its life, follow the regulations in your residential area.**
- For more information, contact the local authority or the dealer where you purchased the product.

Cleaning and Maintenance

Please make sure to unplug the power cord before cleaning the unit.

■ **How to clean the LCD panel of the unit.**
- Wipe the panel with a soft cloth in order to prevent damage to the panel surface.
- Do not use a chemical cloth or cleaner. Depending on the ingredients, it may cause discoloration and damage the panel surface.
- Do not wipe with a hard cloth or rub hard. It may hurt the panel surface.
- In case of the greasy dirt such as fingerprint, wipe with a lint-free cloth moistened by a diluted neutral detergent solution, and then wipe with a soft and dry cloth.
- Do not use a spray cleaner. It could cause malfunction.

ABOUT LCD PANEL

Common Phenomena of LCD Panel

The following are the common phenomena when operating LCD Panel due to its structural reason.
Please note that they are not malfunctions.

• Defective Spots on Panel
The LCD panel is manufactured with high-precision technology. However, there might be some spots that are not emitted, brighter than the others, or in different colours, etc.

• Surface on Panel
The LCD panel displays images by blinking the fluorescent lamps internally. This could raise the temperature of the display surface.
In addition, do not impact strongly on the surface of the panel because LCD panel is made with fine processing glass.

• The Usage under the Low Temperature Environment
Because of the structural characteristics of the LCD panel, the response speed of the LCD panel becomes slower when the ambient temperature around the monitor becomes too low. In some cases, it may cause the residual image.
The residual image will disappear on its own as the temperature goes up and back to normal.

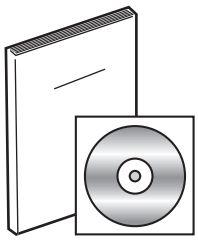
OVERVIEW

- Large-screen and Full HD LCD panel (1920X1080).
- Improved Digital signal processor.
- High quality sound with deeper, richer and dynamic bass tones.
- Various functions as Digital Terrestrial Television (More TV channels, EPG, etc).
- 3 Scart terminals installed.
- Accept more digital input devices with 3 HDMI terminals located on side and rear.
- Great diversity of connecting terminals to cover wide range of audio-visual equipments.
- Enjoy the image from PC with large, high-definition LCD screen.
- Photo Input function with Slide Show.
- SD Card Slot installed.
- Optical Audio Out installed.
- Easy-to-use On-Screen Display system operating with Remote control.
- Low power consumption with Power Saving feature.
- Motorized Power Swivel feature.
- Provided 2000 pages for Teletext.

SUPPLIED ACCESSORIES

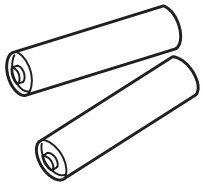
Check the supplied accessories before installation.
In case of missing or damaged, please contact the dealer immediately.

User's Manual

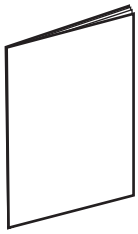


Remote Control

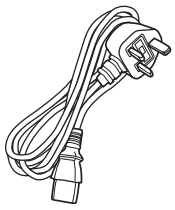
AA size battery
X2



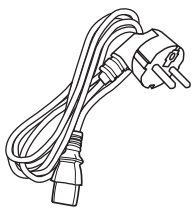
Quick Guide



Power Cord



UK only



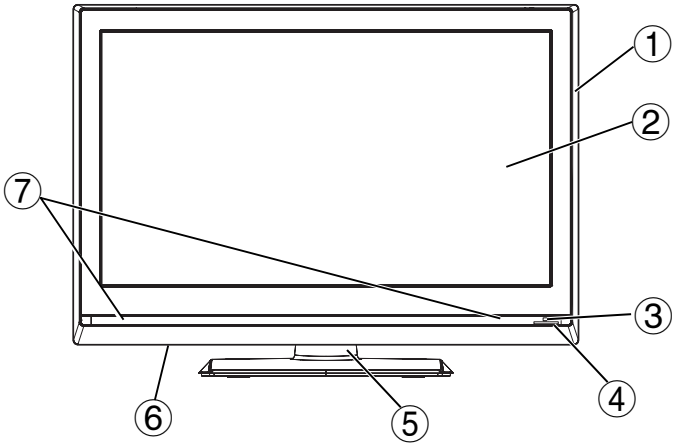
Except UK

* The type of power plug provided is different depending on the model

COMPONENT NAMES

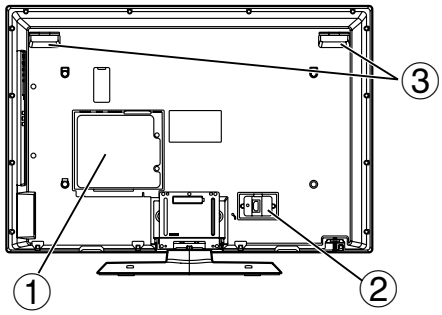
Main Unit

Front Panel



① Cabinet
② Panel
③ Remote control receiver
④ Indicating Lamp
⑤ Desktop Stand
⑥ Main Power Switch (on the bottom surface)
⑦ Speaker

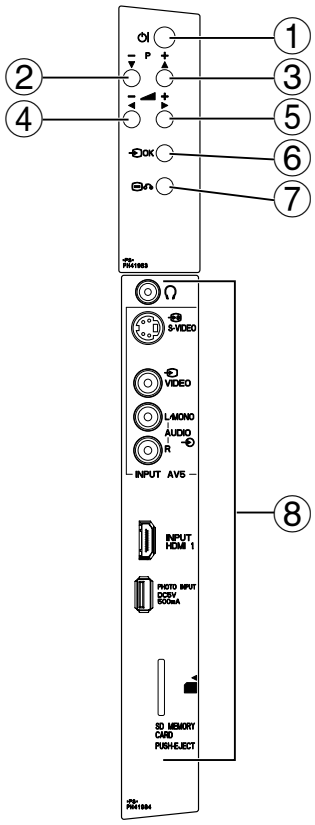
Rear Panel



① Terminal board (External Device Connection)
② Power Cord Socket
③ Handgrips

Please refer to 14 ~ 22 for the detailed information for the connections.

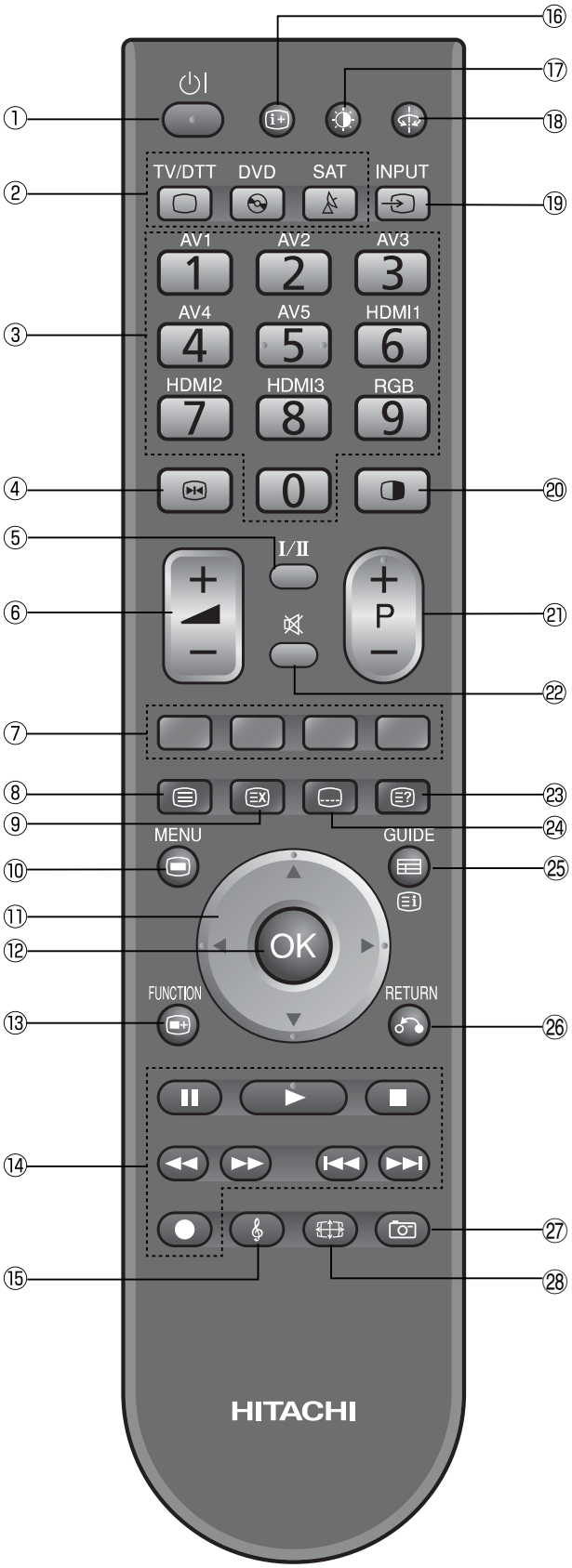
Control Panel (including side input)



① Sub Power button
② Channel Down/▼button
③ Channel Up/▲button
④ Volume Down/◄button
⑤ Volume Up/►button
⑥ Input Select/OK button
⑦ Menu/Return button
⑧ Side Input

COMPONENT NAMES (Continued)

Remote Control



NOTE

The function indicated by **[ ]** are only for Teletext mode. Refer to 57, 58.

① **Sub Power** 23

② **Device Select (TV/DTT, DVD, SAT)** 27, 73
Press these buttons to select device mode. The selected button blinks once. Normally, select “TV/DTT”.

③ **Programme Select/Input Mode [Page Select]** 25, 27, 57, 58
Press these buttons to select a TV programme directly.
You can also use these buttons when changing the Input mode.

④ **Freeze/Multi Mode [Hold]** 57, 62 ~ 64
Press this button to change the picture to freeze mode. Press it again to return to normal picture. In addition, during multi-picture mode, this changes the type of 2-Picture mode.
(Also, it holds the page in teletext mode.)

⑤ **CHI/II** 56, 71
This is exclusively for TV audio A2/NICAM mode. Also, press this button to select Audio Language in DTT mode.

⑥ **Volume Up/Down** 26

⑦ **Colour [Colour]** 57, 58
These coloured buttons are for teletext and other functions as detailed later in this book.

⑧ **TV/Text [TV⇔Text]** 57, 58
This switches between the TV mode and the Teletext mode.

⑨ **Time [Cancel]** 57
Pressing this button can indicate the time by On-screen display when receiving an analogue TV programme on the screen.

⑩ **Menu** 29 ~ 43
Press this button to select Main Menu.

⑪ **Cursor [Item Select]** 58

⑫ **OK**

⑬ **Function Menu** 29, 44 ~ 48
Press this button to select Function Menu.

⑭ **DVD Control** 73
You can use these buttons whilst operating the selected brand of DVD player.

⑮ **Audio Mode** 42
Audio mode can be changed each time pressed in the following sequence. Movie→Music→Speech→Favourite

⑯ **Recall** 28
Press this button to show the input signal status.

⑰ **Picture Mode** 36
Picture mode can be changed each time pressed in the following sequence. Dynamic→Natural→Cinema

⑱ **Swivel (with Desktop Stand)** 70
This function is to rotate TV. Select the degree of rotation with cursor key.

⑲ **Input Select** 27
You can use this to change the input mode.

⑳ **Multi Picture [Text⇔TV+Text]** 57, 62
Press this button to change the picture to multi-picture mode. Press it again to return to normal picture.

㉑ **Channel Up/Down [Page Select]** 25, 57

㉒ **Mute** 26

㉓ **[Reveal]** 57

㉔ **DVB Subtitle (Language) [Subtitle]** 56 ~ 58
Press this button to set On DVB subtitle and select the language in DTT mode.

㉕ **Guide [Index]** 52, 57
It displays EPG screen in DTT mode.

㉖ **Return**
You can use this to return to the previous menu.

㉗ **Photo Input** 65 ~ 69
This button is to display and control the pictures from digital still camera, USB card reader, or SD (MMC) card.

㉘ **Zoom** 59, 60
Press this button to change picture size.

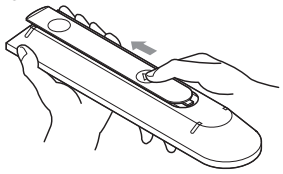
PREPARATION

Remote Control Batteries Installation

This remote control operates on **2 "AA"** batteries.

1. Open the battery compartment cover

- Slide open the battery compartment cover on the backside in the direction of an arrow, and remove the cover.

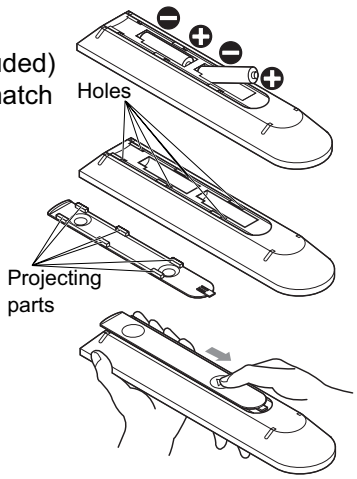


2. Install the batteries

- Install 2 "AA" batteries (included) making sure the polarities match the indication inside the compartment.

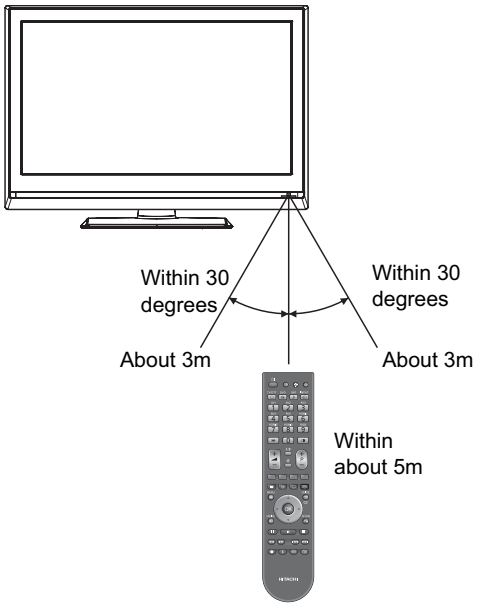
3. Close the battery compartment cover

- Make sure of the positions to fit the projecting parts in the holes, and slide the compartment cover in the direction of an arrow till it clicks shut.



Handling the Remote Control

Use the remote control within about 5m from front of the unit's remote-control sensor and within 30 degrees on both sides.



⚠CAUTION

It could cause corrosion or battery leakage and may result in physical injury and/or property damage including fire.

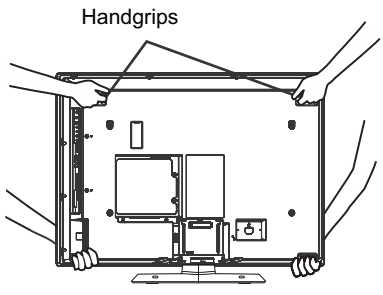
- Never mix used and new batteries in the device.
- Replace all the batteries in a device at the same time.
- Remove the batteries if the remote control is not going to be used for an extended period of time.

To avoid possible failure, read the following instructions and handle the remote control properly.

- Do not drop or cause impact to the remote control.
- Do not spill water or any liquid on the remote control.
- Do not place the remote control on a wet object.
- Do not place the remote control under the direct sunlight or near sources of excessive heat.

Caution When Moving the Main Unit

As this product is heavy, whenever it is moved, two people are required to transport it safely.
When transferring the unit, hold the unit by using the handgrips at the backside of the panel. (See the figure below for details.)



PREPARATION (continued)

Safety Precaution on Main Unit Installation

Read SAFETY PRECAUTIONS (4 to 7) carefully besides this page.

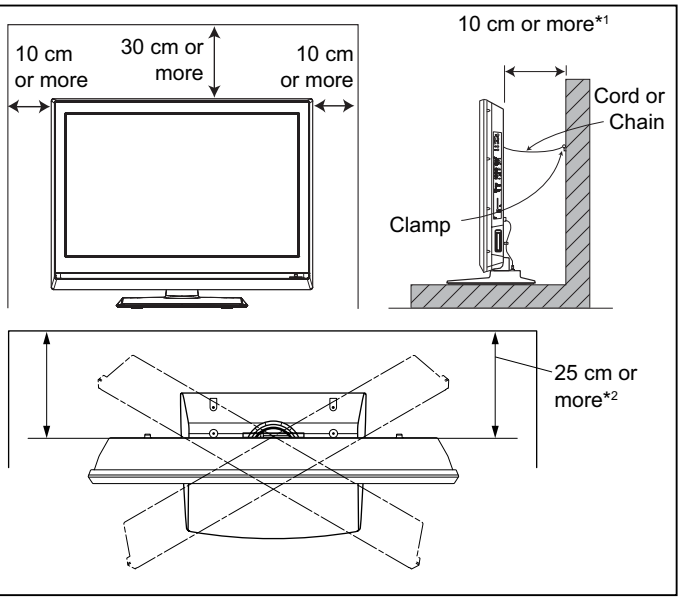
*The Desktop Stand has been used for the illustration in this manual.

When installing the main unit, be sure to use the specified mount units in order to obtain maximum performance and maintain the safety.
We assume no responsibility or liability for personal injuries or property damages caused by use of other mount units or improper installation.

As for the installation instruction, please read each user's manual of the mount units: for Wall Mounting and Ceiling Mounting.
In case of Wall or Ceiling Mounting, please ask your local dealer to arrange professional installation. Never attempt to install it by yourself. It could cause injuries or damages.

Please leave adequate space around this unit in order to avoid increasing the internal temperature and keep safety whilst using swivel function (if your TV has Swivel function).
Make sure not to block any ventilation holes.
Do not install the unit in small space such as inside a cabinet or the box.
Leave more than 10cm of clearance from each side of unit and 30cm from the top of unit to wall.

*1 Without Swivel function: Leave at least 10cm of clearance behind rear unit.
*2 With Swivel function: Leave at least 25cm of clearance to obtain the maximum performance of Swivel Function.
Refer to 70 for Swivel Function.

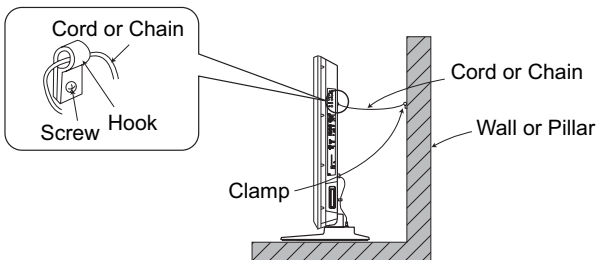


Anti-Tumble Measures

Install in a stable place and implement safety measure against overturning.

Securing to a wall or pillar

Using a commercially available cord, chain, and clamp, secure the set to a wall or pillar.



Securing to ceiling

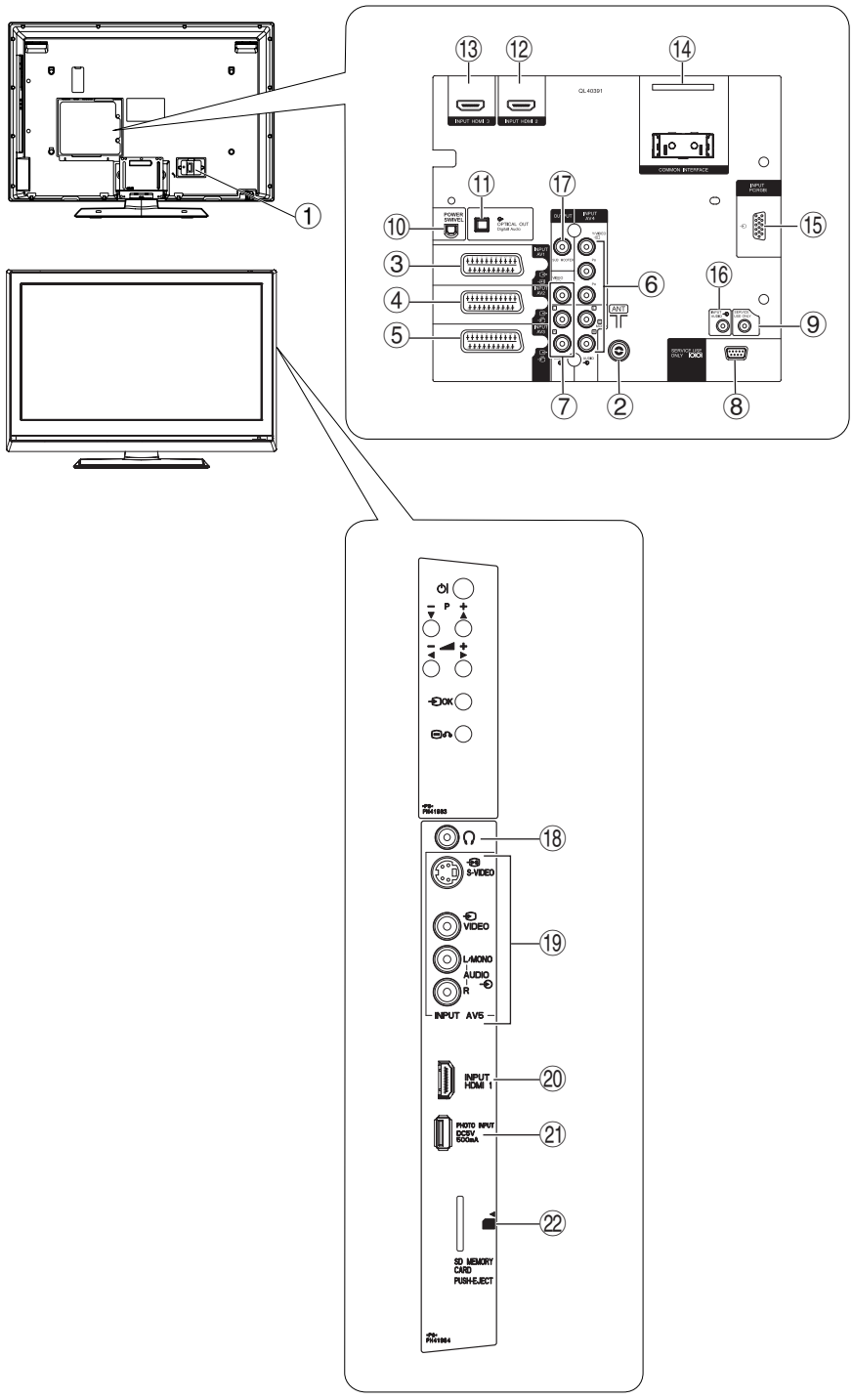
Using a commercially available cord, chain, and clamp, secure the set to a ceiling.

NOTE

- For more information regarding the mounting of the unit, please contact your dealer.
- Loosen a cord or chain enough whilst operating power swivel to avoid physical injury.
- Please install the unit in a sensible location where it does not expose anyone to the danger of knocking into the unit, causing injury to themselves or the LCD TV.

CONNECTION

Terminal Positions



① Power Cord Socket
② Aerial Socket
③ AV1
④ AV2
⑤ AV3
⑥ AV4
⑦ Monitor Out
⑧ Service Use only
⑨ Service Use only
⑩ Power Swivel Terminal
⑪ Optical Out (Digital Audio)
⑫ HDMI 2
⑬ HDMI 3
⑭ Common interface slot
⑮ PC Terminal
⑯ Mini stereo for Audio
⑰ Sub Woofer

⑱ Headphone terminal
⑲ AV5
⑳ HDMI 1
㉑ Photo Input Terminal
㉒ SD Memory Card slot

CONNECTION (continued)

Connecting Procedure

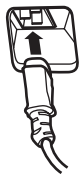
This unit is ready for various kinds of connections. Make a connection in the following steps. Be sure to turn off the Main Power first when connecting external equipments.

1. Connect Power Cord to the rear panel.
2. Connect Aerial Lead.
3. Connect your external equipments to the unit if any.
4. Connect the Power Plug to the Wall Socket.

---

1. Connecting Power Cord to the Rear Panel

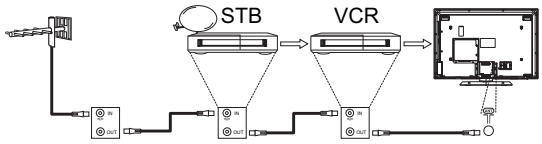
Connect Power Cord to the unit.
*Make sure not to connect the Power Plug to the Wall Socket until all connections are completed.



2. Connecting Aerial Lead.

There are two ways to connect Aerial Lead.

- **When you do not have any other external equipment:**
  Connect the Aerial Lead directly into the Socket at rear panel.
- **When you have one or more external devices to connect:**
  1. Use RF cable to connect between each equipment and aerial.
  2. Connect the Aerial Lead to the Aerial Input socket of an external device such as a VCR.
  3. Connect the RF cable from the equipment 'Out' to the other equipment 'In.'
  4. Then, connect from the equipment 'Out' to "ANT" on the LCD screen Socket.



[Example: Connecting aerial through STB and VCR]

NOTE

- If analogue and digital broadcast signals are provided from separate aerials, please use a mixer and RF cable to connect aerial socket in order to receive both signals.

Precautions when connecting the aerial

- Please use a coaxial cable which is free from interference to connect the aerial.
- Avoid using indoor aerial as this may be affected by interference. Please use outdoor aerial.
- If noise appears in the picture, please use a double-shielded cable (not provided) for RF LEADS to reduce the noise.

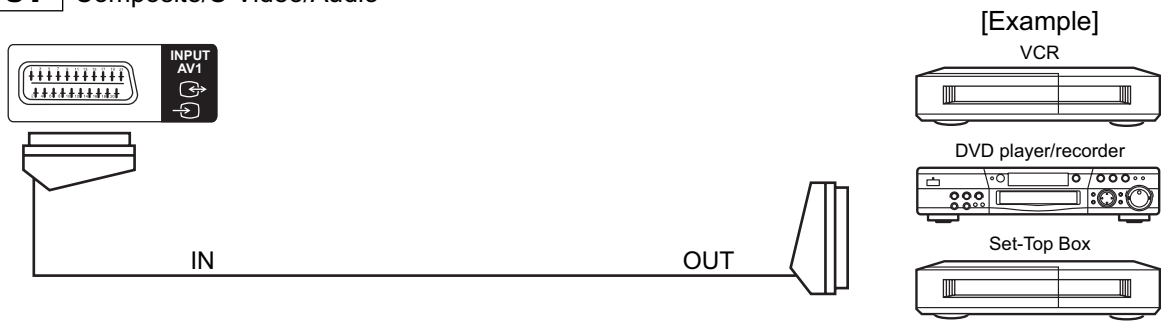
Connecting Procedure (continued)

3. Connecting to External Equipment

• Terminals on Rear

AV1 can be connected to the equipment with Composite/S-Video/Audio output, and Composite/Audio input.
The output signal can support not only Analogue but also Digital Terrestrial TV signals.

INPUT Composite/S-Video/Audio



If STB is connected to AV1 in France, it descrambles some of the Pay TV images by resending the signal again (In/Out).

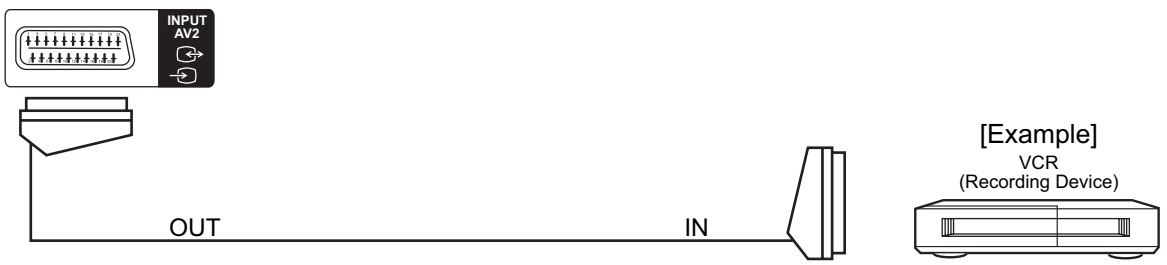
OUTPUT Composite/Audio

While View Timer is on, the active programme is output from AV1. See 53 for View Timer.

AV2 and 3 can be connected to the equipment with Composite/RGB/Audio output, and Composite/Audio input.

INPUT Composite/RGB/Audio

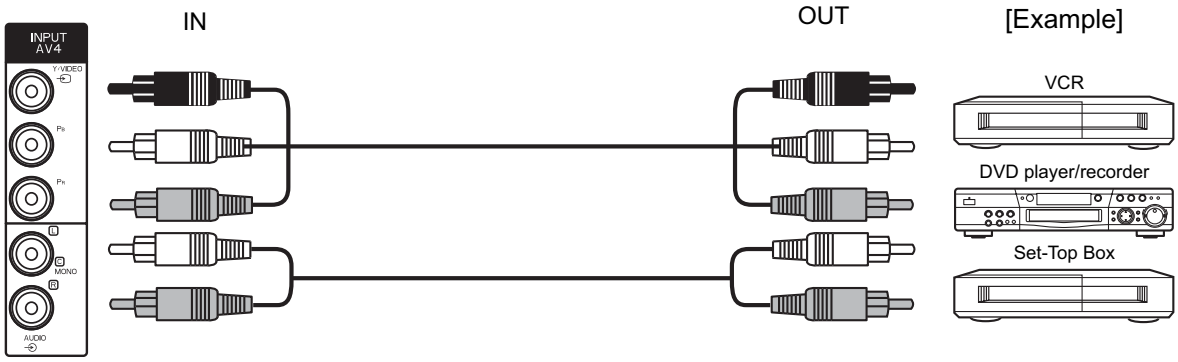
OUTPUT Composite/Audio



CONNECTION (continued)

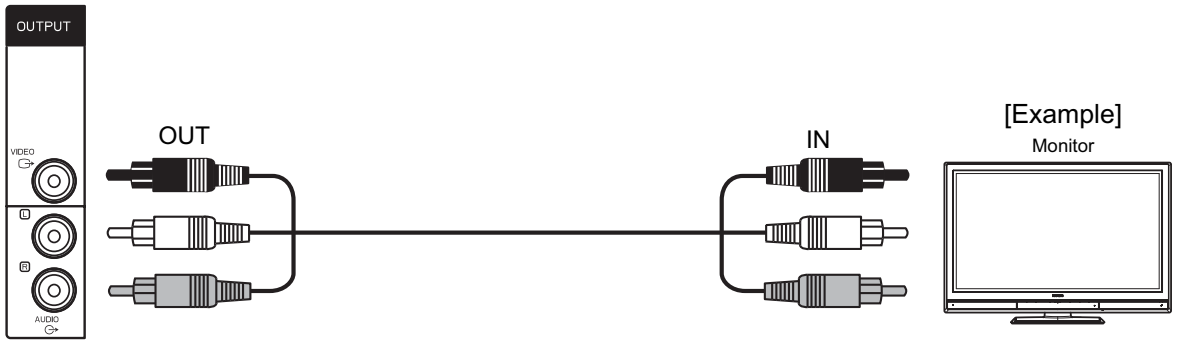
Connecting Procedure (continued)

AV4 can be connected to the equipment with either Component or Composite output. When using as Composite, do not insert the jacks into P_B or P_R.



If your external device has a Component terminal, COMPONENT connection is recommended for higher quality picture.

Monitor Out can be used to display same image as main unit on another monitor.
When this output terminal is connected to an external monitor with a 75 Ohm terminal, the same image from composite (AV1~5), or RF signal can be displayed to the external monitor.



NOTE

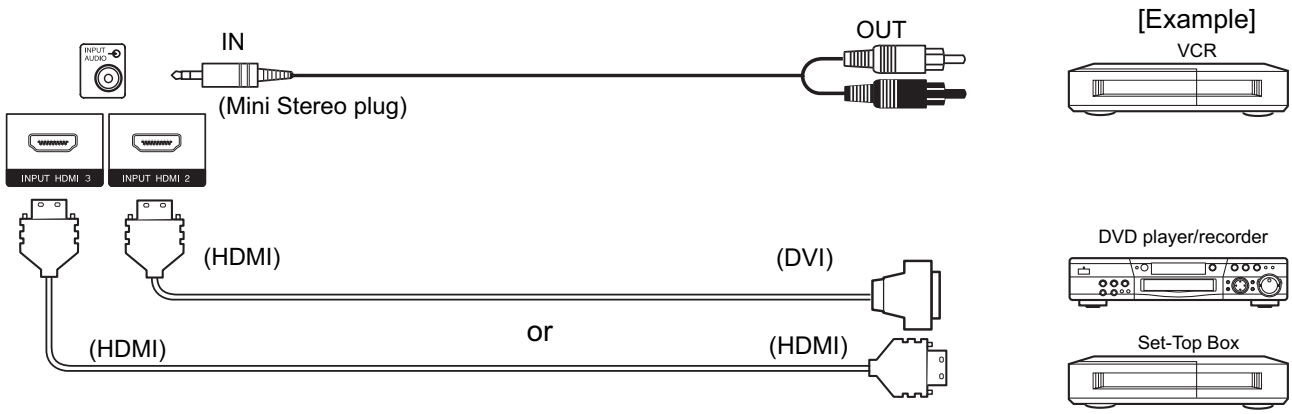
• Video output is not available from component or HDMI/RGB input.

Optical Out (Digital Audio) This provides Digital Audio Output for your audio device that is Dolby® Digital and PCM compatible, such as an audio amplifier.

CONNECTION (continued)

Connecting Procedure (continued)

HDMI 2 and 3 terminal can be connected to the devices with HDMI output. If the external device has DVI output, this can be available with HDMI-DVI cable. In case of using the HDMI-DVI cable, connect to audio terminal besides HDMI input terminal.
Refer to 20 about HDMI1 terminal on side.



Information

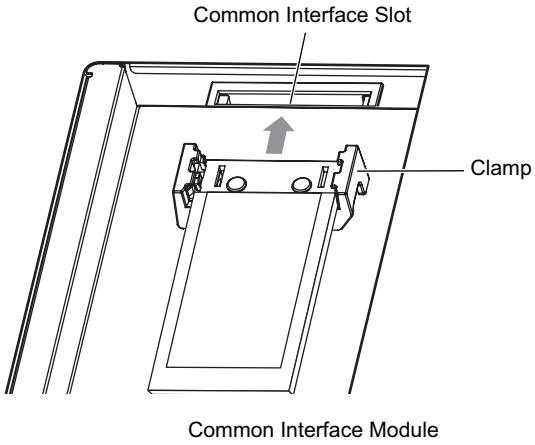
HDMI (High Definition Multimedia Interface) is next-generation multimedia I/O interface. Only one cable is used to transmit all video/audio/control signals, which creates easy connection.
Moreover, those digital signals can produce high quality data without any degradation.
You are provided with three HDMI terminals on side and rear.

If your external device has a HDMI terminal, HDMI connection is recommended for higher quality picture and sound.

NOTE

When the signal format is 1080p, use a cable of less than 5 metres.

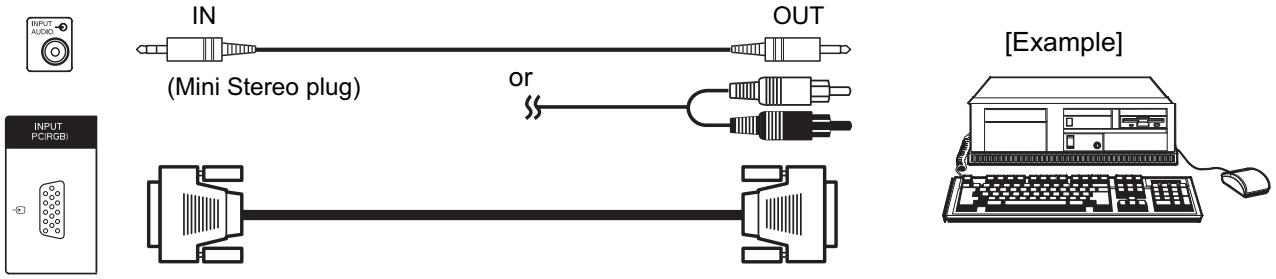
Common Interface Slot allows you to receive Pay TV service with detachable modules.
Before inserting the module, make sure to turn off the main power. And then insert the module through the clamp all the way into the slot. Make sure to insert it correctly. Refer to 45 for the details.



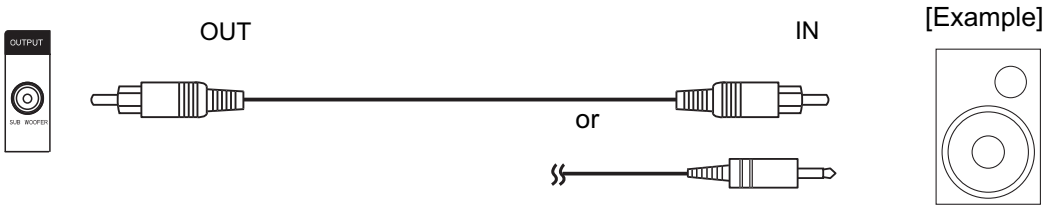
CONNECTION (continued)

Connecting Procedure (continued)

PC terminal (D-sub 15 pin) is connected to PC, which allows Analogue RGB signal. Connect to also audio terminal on the rear besides PC (RGB) terminal.



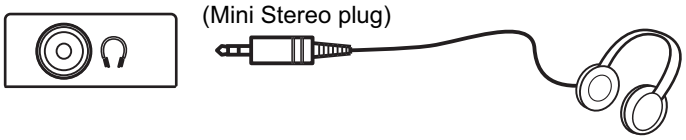
Sub Woofer terminal can bring the deep bass sound from the external speaker equipped with a built-in amplifier.



• Terminals on Side

Since the following terminals are located on the side, it is very convenient to connect an extra device on a temporary basis after completing the connections on the rear panel.

Headphone

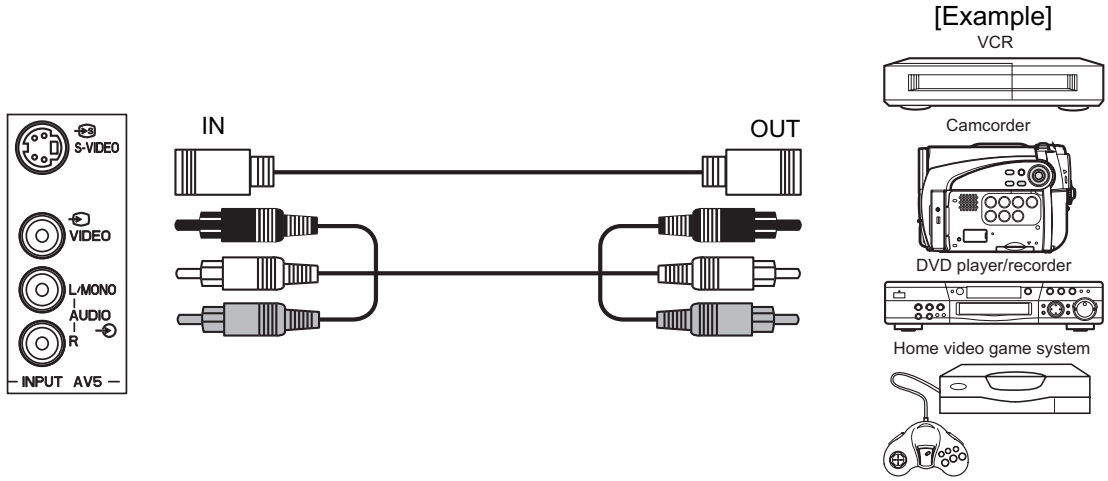


In case of setting "**Headphone Select**" in **Audio Menu** to "**H.Phone only**", the audio from the speaker will be muted when connecting the headphone to this terminal. Refer to 42.

CONNECTION (continued)

Connecting Procedure (continued)

AV5 can be connected to the equipment with S-video output and composite output.

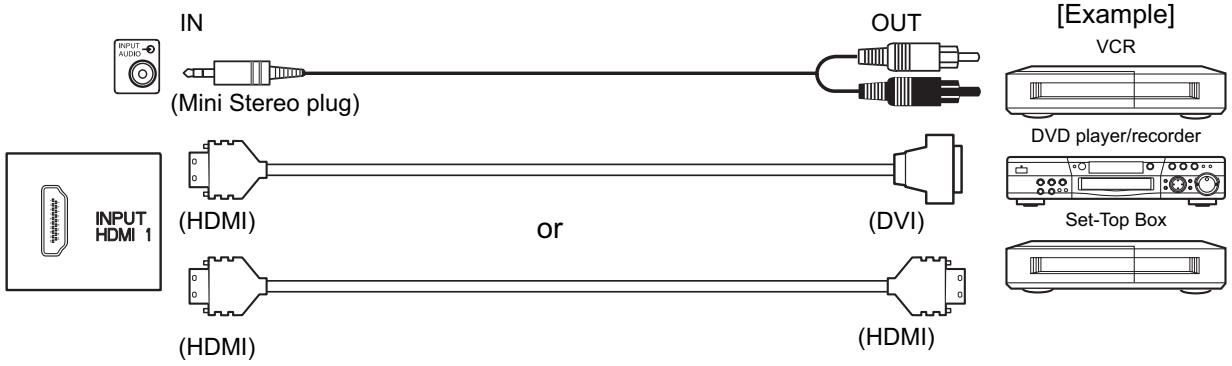


If your external device has S-video terminal, S-VIDEO connection is recommended for higher quality picture.

NOTE

If both S-video and video input terminals of AV5 are connected at the same time, S-video will have its priority.

HDMI 1 terminal can be connected to the devices with HDMI output. If the external device has DVI output, this can be available with HDMI-DVI cable. In case of using the HDMI-DVI cable, connect to audio terminal on the rear besides HDMI input terminal. Refer to 18 for details about HDMI2 and HDMI3 terminal on the rear.



NOTE

When the signal format is 1080p, use a cable of less than 5 metres.

CONNECTION (continued)

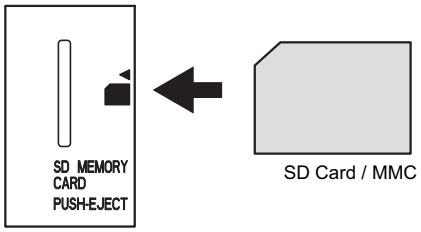
Connecting Procedure (continued)

Photo Input terminal can be connected to a digital still camera or USB card reader with USB cable. For details, refer to the Photo Input function shown on 65~69.

NOTE

This photo input terminal does not support general USB devices such as USB memory.
Please do not connect with those devices.

SD Memory Card slot can be used for the Photo Input function with the SD (or MMC) card memory containing pictures. For details, refer to the Photo Input function shown on 65~69.

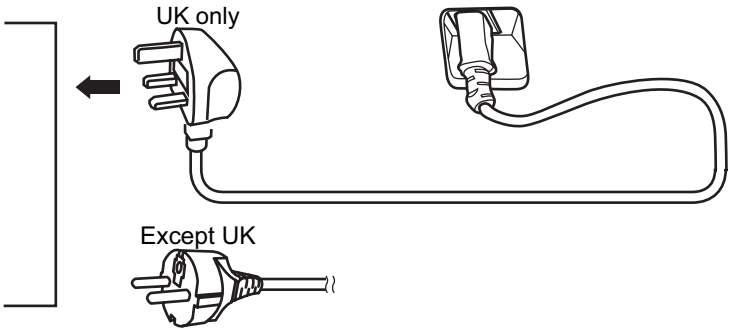


CONNECTION (continued)

Connecting Procedure (continued)

4. Connecting the plug into the wall socket

Connect the Power Cord after completing all other connections.
(The type of plug is different from this drawing for some countries.)



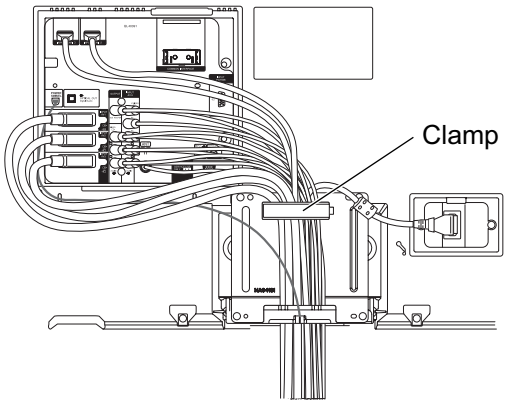
⚠ CAUTION

- Use only the Power Cord provided.
- Do not use a power supply voltage other than that indicated (AC220-240V, 50Hz). It may cause fire or electric shock.
- For the LCD television, a three-core power cord with a ground terminal is used for efficiency protection. Always be sure to connect the Power Cord to a grounded outlet and make sure that the cord is properly grounded. If you use a power source converter plug, use an outlet with a ground terminal and screw down the ground line.
- Connection to a Cable Distribution System is to be provided through a galvanic isolator.
- Ensure that both ends of power cord are easily accessible.
- If you have to change the power cord, please use the certified power cord that meets your region's safety standard.

Information

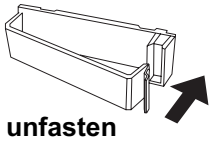
- **How to secure the cables.**

After connecting all of the cables to the terminals, secure them with the clamps.
When you secure the cables, please be careful not to tighten too much.



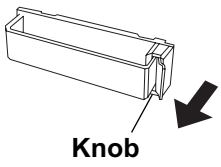
How to secure the clamp:

- **To set**



Push the clump in the direction of the arrow until it clicks.

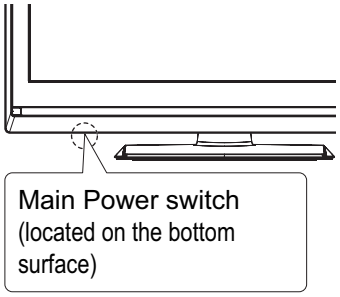
- **To unfasten**



Whilst pushing the knob, pull it in the direction of the arrow.

BASIC OPERATION

Power On/Off

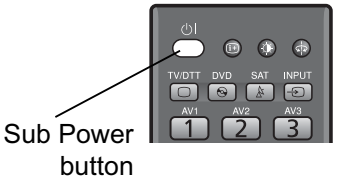


Now, turn On the main power to the unit. Make sure that the power cord is plugged into the wall socket.

• To turn On the power of the unit:

1. Press the **Main Power switch** on the unit.
- The Indicating Lamp will illuminates in **Red** (Standby mode).

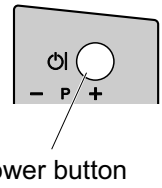
2. Press **Sub Power button** either on the control panel or on the remote control.
- The colour of the Indicating Lamp turns into **Blue**, and the image will be displayed on the screen.



• To turn Off the power of the unit:

1. Press **Sub Power button** either on the control panel or on the remote control.
- The image disappears from the screen and the Indicating Lamp turns into **Red** (Standby mode).

2. Press **Main Power switch** to completely turn Off the power of the unit.



The Indicating Lamp Status Check

Indicating Lamp Status	Power Status	Power Switch Status	View Timer Status
Off	Off	Main power → Off	—
Red	Standby mode	Main power → On Sub power → Off	—
Blue[*1]	On	Main power → On Sub power → On	—
Pulsing Blue	Power Save mode[*2]	Main power → On Sub power → On	—
Orange[*3]	—	—	Whilst TV has View Timer set up.
Green	—	—	Whilst operating a programme which has set up View Timer.

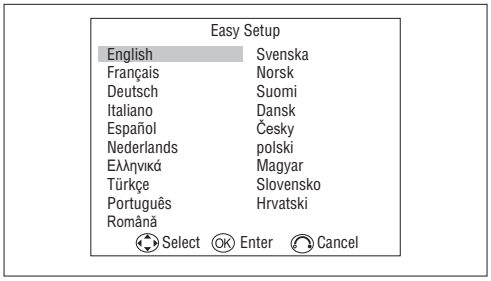
*1 After turning on, the indicating lamp pulses for an instant and then starts lighting. Also, the indicating lamp blinks whilst using remote control.
In case you do not want it to pulse/blink, select "**Off**" in "**LED Mode**" from **Configuration** menu. Refer to 34 for the details.
*2 About Power Save mode, see "Power Save Mode" and "When Following Messages Appear on the Screen" on 72 and 74 for details.
*3 The indicating lamp blinks in orange if the View Timer setting does not have time information.

NOTE
- If the image does not appear on the screen at all, or have any problem, see TROUBLESHOOTING on 74 ~ 76. It may help you to solve the problems.
- After turning On, it takes several tens of seconds until TV starts up. If selecting "**On**" in "**Quick Start Options**" from **Configuration** menu, you can shorten the processing time. Refer to 34.
- You can turn On the power only by pressing the **Sub Power button** during Standby mode.
- Do not switch the power On/Off repeatedly in a short period of time. It could cause malfunction.
- If the power outage occurs whilst using the unit, turn Off the Main Power switch before you leave to avoid sudden power surges when power comes back.

BASIC OPERATION (continued)

Easy Setup

When you turn ON the TV for the first time, your TV automatically leads to the settings of "**Language**," "**Target**," and "**Country** (TV and DTT)." (Also, refer to the attached Quick Guide.)



The integrated DVB-T tuner will only receive MPEG2 compressed signals. Thus, it will not work with MPEG4 signals.
Hitachi can't guarantee the functionality of the integrated DVB-T tuner in case of a change of the DVB-T standard.

1. The first screen appeared will ask you to choose the language of your TV's display.

2. Using ◆ button, select language you preferred from the list and press OK button.

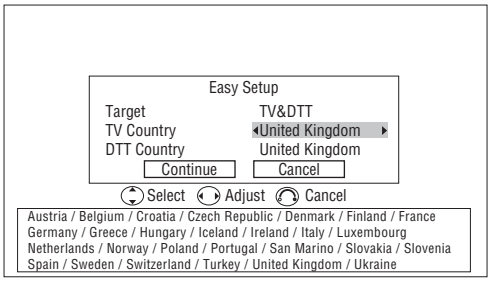
3. Then, using ◆ button, select the target for auto scan.

TV → DTT → TV&DTT

4. If you choose "**TV**" or "**TV&DTT**" in "**Target**," select the country for analogue scan with ◆ button.

5. If you choose "**DTT**" or "**TV&DTT**" in "**Target**," select the country for digital scan with ◆ button.

For L37X01U model:
Please note that the country of digital scan is automatically set as "**United Kingdom**," which is shown as grey (unavailable to select the other countries).


Easy Setup
Target
TV Country
DTT Country
TV&DTT
United Kingdom
United Kingdom
Continue
Cancel
Select
Adjust
Cancel
Austria / Belgium / Croatia / Czech Republic / Denmark / Finland / France
Germany / Greece / Hungary / Iceland / Ireland / Italy / Luxembourg
Netherlands / Norway / Poland / Portugal / San Marino / Slovakia / Slovenia
Spain / Sweden / Switzerland / Turkey / United Kingdom / Ukraine

<Example: L37X01U>

6. The auto tuning screen appears, and your TV will now search channels through the frequencies storing them in order.

NOTE

• If you want to change the setting after completing this easy setup, press MENU button and select "**Easy Setup**" from "**Initial Setup**" menu in order to set up individually. (See 31.)

BASIC OPERATION (continued)

Channel Selections

There are 4 ways to select the channels: stepping through the channel, selecting by number, selecting from the on-screen channel list, and using the Electronic Programme Guide (EPG).

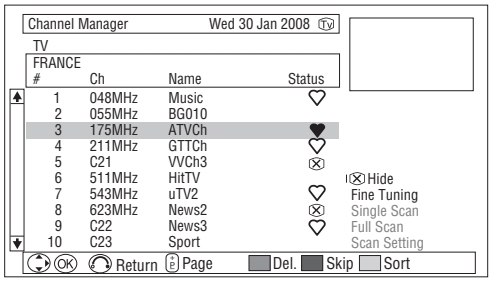
Stepping through the Channel

Press (P+/P-) button on the remote control or **Channel Up/Down** button on the control panel to switch the next or previous channel on the list. Information banner is displayed every time channel is switched.
Refer to 55 about the information banner.

Channel Up/Down button

Selecting from the On-screen Channel List

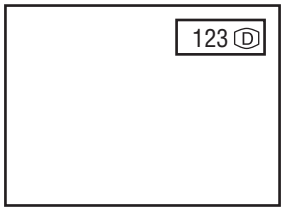
1. Press MENU button on the remote control.
2. Select "**Channel Manager**" from Main Menu to show channel list.
3. Use (▲▼) button to move through the list. A picture of the selected channel is displayed in the upper right of the screen. Use (P+/P-) button to move to the next or the previous page.
4. Press MENU button again to watch the channel selected latest in 3.



<Example: L37X01E in TV mode>

Selecting by Number

Enter the number based on its channel list by the numeric buttons on the remote control. Skip channels can be selected, too. A small box appears in the upper right corner of the screen to show entered number. Channel is switched along with the information banner. If the entered number is not valid for one of the setup channels, it automatically selects the closest channel.



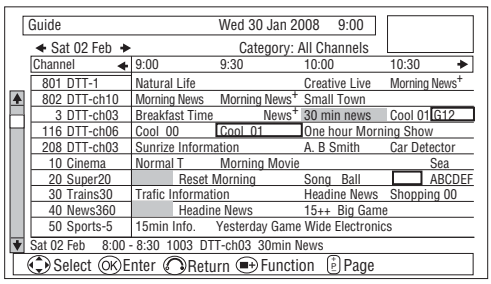
<Example: DTT mode>

Using the Electronic Programme Guide (EPG) [DTT mode only]

Press GUIDE button or select "**Guide**" in Function menu to access EPG screen. The EPG screen displays a list of the stored channels (10 channels per page) along with the description of the programme being broadcast.

To change channels, use (▲▼) and (P+/P-) button and then (OK) button.

Refer to 52 regarding Electronic Programme Guide for details.


Guide
Wed 30 Jan 2008 9:00
Sat 02 Feb
Category: All Channels
Channel 9:00 9:30 10:00 10:30
801 DTT-1 Natural Life Creative Live Morning News+
802 DTT-ch10 Morning News Morning News+ Small Town
3 DTT-ch03 Breakfast Time News+ 30 min news Cool 01 G12
116 DTT-ch06 Cool 00 Cool 01 One hour Morning Show
208 DTT-ch03 Sunrize Information A. B Smith Car Detector
10 Cinema Normal T Morning Movie Sea
20 Super20 Reset Morning Song Ball ABCDEF
30 Trains30 Trafic Information Headine News Shopping 00
40 News360 Headine News 15++ Big Game
50 Sports-5 15min Info. Yesterday Game Wide Electronics
Sat 02 Feb 8:00 - 8:30 1003 DTT-ch03 30min News
Select Enter Return Function Page
<Example: Matrix View>

NOTE

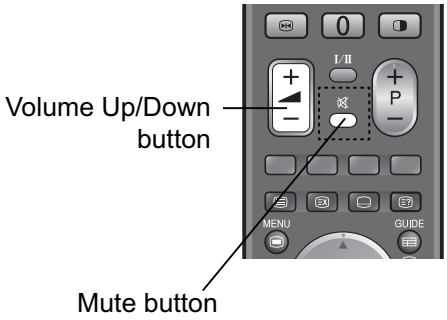
Please note that DTT menu and image from MHEG Digital Teletext (without picture) cannot be supported at the same time. (Audio and picture are available.)
The followings are the examples.
- If the quarter images on EPG or Channel List screen is from MHEG Digital Teletext, those images cannot be displayed.
- If you try to display the menu whilst displaying MHEG Digital Teletext (without picture), the teletext screen becomes unavailable.

BASIC OPERATION (continued)

Volume Up/Down

1. To increase the sound volume, press + button on the remote control, or **Volume Up** button on the control panel.
- The Volume Indicator value on the screen will shift right.

2. To decrease the sound volume, press − button on the remote control or **Volume Down** button on the control panel.
- The Volume Indicator value on the screen will shift left.



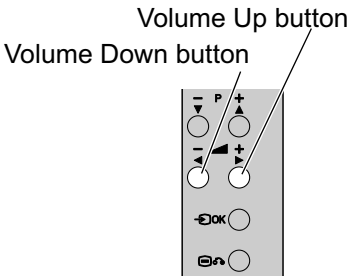
Mute

1. To mute the sound, press button on the remote control.
- The sound of the unit is temporarily turned Off.
- The colour of the Volume Indicator will turn into **grey** whilst muting the volume.

2. To bring the sound back, press button again, or Volume Up button on either remote control or the control panel.
- The colour of the Volume Indicator will turn back to **white**.

NOTE

- You can decrease the volume by pressing − button whilst the sound is muted.



Volume Indicator

BASIC OPERATION (continued)

Input Switching to DTT/TV/AV1~5/HDMI1~3/RGB

There are several ways to change the input mode as mentioned below.
Please select your preferred way.

● You can select DTT and TV mode directly.
Press TV/DTT button on the remote control. Each time the button is pressed, the mode is switched between DTT and TV mode.

● Display Input Switching Banner to select the input mode.

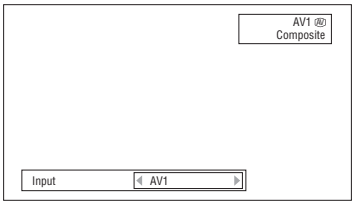
1. Press INPUT button on the remote control or **Input Select** button on the control panel to display Input Switching Banner.

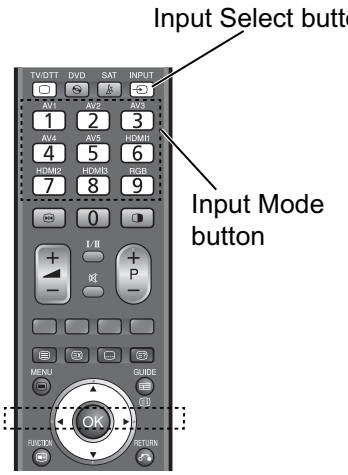
2. Select the input mode.
• Each time INPUT button on the remote control or **Input Select** button on the control panel is pressed, the screen displays the corresponding mode by following order.

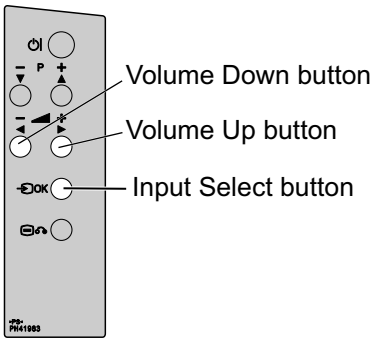
DTT → TV → AV1 → AV2 → AV3 → AV4 → RGB → HDMI 3 → HDMI 2 → HDMI 1 → AV5 → DTT

Also, you can change the input mode back and forth by using ◄► button on the remote control or **Volume Up/Down** button on the control panel.

● Input Mode buttons (AV1~AV5, HDMI 1~3 and RGB mode)
After pressing INPUT button, press the desired **Input Mode** button on the remote control.







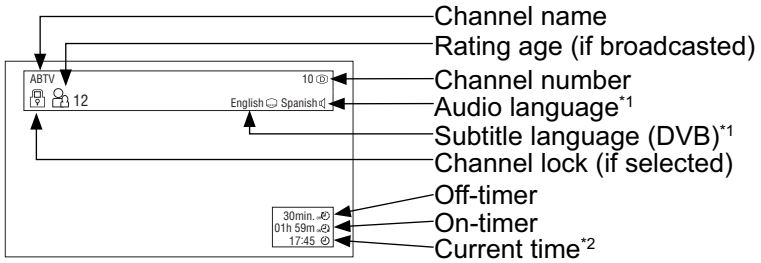
BASIC OPERATION (continued)

Input Signal Screen Display

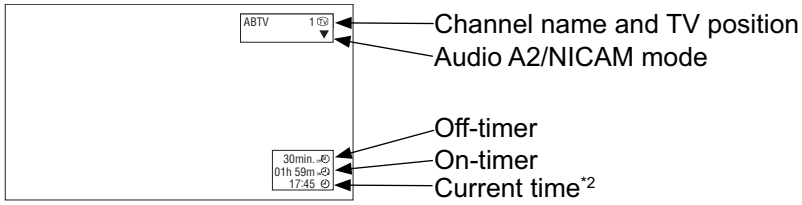
The input signal status can be displayed on the screen by pressing the (i+) button of the remote control.

- If (i+) button is pressed again in DTT mode, it can show the information banner. Refer to 55 about the information banner.
- The display will go out in approximately 6 seconds.

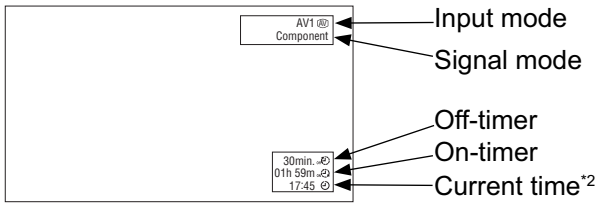
DTT



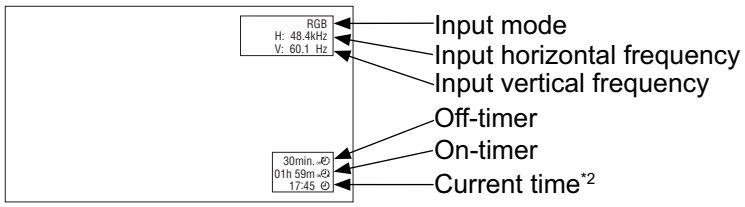
TV



VIDEO



RGB



*1 If the programme provides special audio/subtitle (DVB) service, icons may appear. See 55 for details.

*2 If time signal is received from DTT broadcasting or the time is set in “Timers”, the current time is displayed. See 44 for details.

MENU OPERATION

How to use On-Screen Display (OSD) system

With the On-Screen Display system, you can access the various kinds of the features and functions in this product. There are two setting menus of Main Menu and Function Menu. As usage, press MENU button to show Main Menu or FUNCTION button to show Function Menu.

• Basic Operation

1. Press MENU / FUNCTION button on the remote control, or **Main Menu** button on the control panel of the unit. The **Main / Function Menu** is displayed on the screen as shown on the right.

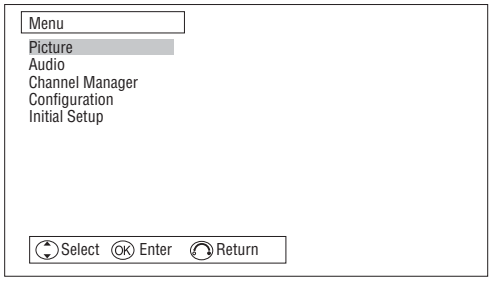
2. To select the item, press ▲▼ button.
The selected item will be highlighted in Orange.

3. Press OK button to set your selection.
The selected menu page will be displayed on the screen.

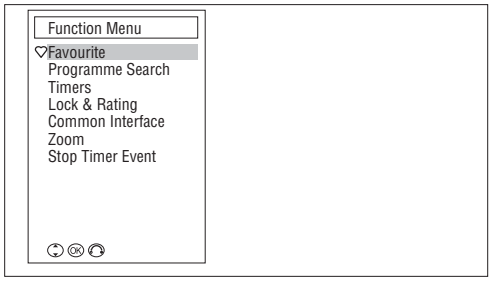
4. Use ▲▼ button to choose the item on the MENU page.
Press OK button to set your selection.

5. Use ◄► button to adjust the item values or choose options.
Press OK button to set your selection.

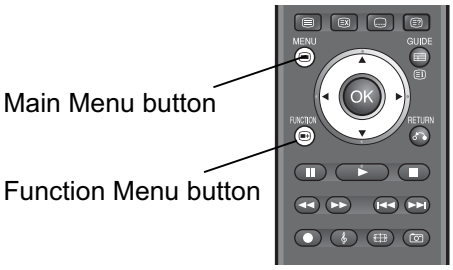
6. To exit from the menu, press RETURN button (several times if necessary) and MENU button.

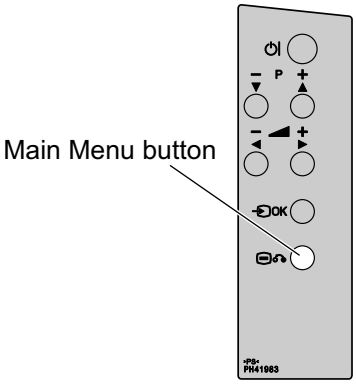


<Main Menu>



<Function Menu>





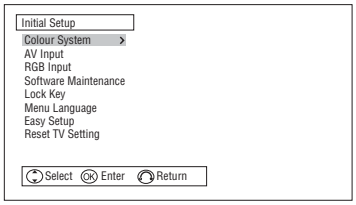
NOTE

- The OSD menu screen will be closed automatically when no operation has been made for about one minute.
- If the item in menu is shown in grey, it means that it cannot be selected or adjusted.
- The menu items indicated by * on 30 ~ 43 can be automatically stored.

MAIN MENU OPERATION

Initial Setup Menu

This menu allows you to access various kinds of initial settings.
The menu items indicated by * can be automatically stored.



<Example: L37X01E>

Selected Items				Setup hint
Colour System*	System1			Do not change the original setting. (System1: Europe/Asia, System2: South America) • Composite and S-video input only.
	System2			
	AV1~AV5	System1	Auto	Select the colour system depending on the input signal. • Generally, select [Auto] to receive all signals for both System1 and System2. • In case that the input signal has too much noise, the signal level is too low, or the operation is unstable in [Auto], select the system according to the colour system of the input signal. • Composite and S-video input only.
			PAL	
			SECAM	
			NTSC4.43	
			NTSC3.58	
		System2	Auto	
			NTSC-M	
			PAL-M	
			PAL-N	
AV Input	AV1 Input*		S.Video	Select depending on the type of AV1 input terminal. The default setting is [Composite]. Select [S.Video] when you want to watch S.Video image.
			Composite	
RGB Input	Auto Adjust			Adjust Horizontal Position, Vertical Position, Horizontal Clock, and Clock Phase automatically. • Press (OK) button to start auto adjustment. The message “Auto Adjusting” is displayed. • Depending on the type of the signal, the display may not be adjusted in its optimum condition with this function. In that case, please adjust each item manually.
	Horizontal Position*		-63~+63	Adjust the display position horizontally. • When the position exceeds the possible range, the display colour will turn into Magenta.
	Vertical Position*		-31~+31	Adjust the display position vertically. • When the position exceeds the possible range, the display colour will turn into Magenta.
	Horizontal Clock*		-31~+31	Minimize the vertical stripes on the screen.
	Clock Phase*		0~63	Minimize the blurring of the letters and stripes on horizontal row. • Make sure to adjust Horizontal Clock first before adjusting Clock Phase.
	Reset			Reset all the set values on this Menu page to original factory settings.

Initial Setup Menu (continued)

Selected Items			Setup hint
RGB Input	Input Level*	0.7V	• Normally, select [0.7V]. • Select [1.0V] only when the whole display becomes too white.
		1.0V	
	Frequency Display*	Off	Select whether indicating the PC signal frequency information on Input Signal Screen Display or not.
		On	
	WXGA Mode*	Off	• This function is available only for WXGA signal. • Select “1280x768” when WXGA signal is displayed. • Refer to “Recommended Signal List” on 79.
		1280x768	
	Vertical Filter*	Off	Reduce the flickers on the screen when set to [On].
		On	
Software Maintenance	Upgrade (SD)		This upgrades TV by using data from SD card.
	Upgrade (OAD)		This upgrades TV by downloading data from broadcasting (OAD).
	Auto Upgrade*	Enable	If select “Enable,” the TV will check if any new software is available every night at 3:00 am.
		Disable	
	Auto Picture Reset*	Off	On: This returns all the picture setting to default condition when turning on/off TV.
		On	
	Demo Mode	Off	This is for demonstration at shops. It is normally set Off.
		1	
		2	
Lock Key	Current Lock Key		This can change the Lock key (4 digit number). The default Lock key is “0000”. If you forget the Lock key, enter “7777” in “Current Lock Key” to reset.
	New Lock Key		
	Confirm		
Menu Language*			This can select preferred OSD language from the following 19 languages by ◄► button. English/French/German/Italian/Spanish/Dutch/Greek/Turkish/Portuguese/Rumanian/Swedish/Norwegian/Finnish/Danish/Czech/Polish/Hungarian/Slovene/Croatian
Easy Setup			See 24 for the detailed steps.
Reset TV Setting			All items can be restored to the original factory settings by pressing OK button. (This is available only for L37X01E model.)

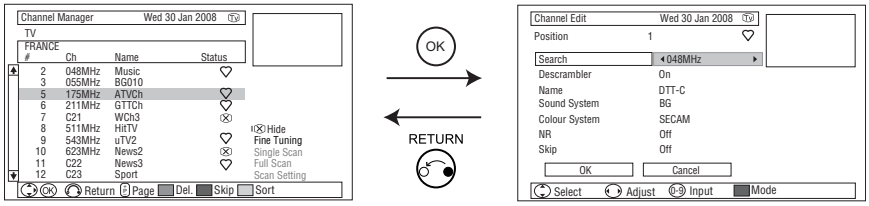
NOTE

- Once Easy Setup is completed, the settings for Channel List, Favourite Channel, View Timer, and Channel Lock will be restored to the original setting. (The current setting will be erased.)
- Please note that you cannot watch broadcasting during upgrading. It might take time for the upgrade processing, depending on the software contents.

MAIN MENU OPERATION (continued)

Channel Manager Menu (TV mode)

With this menu, you can check channel list and access various kinds of features relating to TV channel settings.
The menu items indicated by * can be automatically stored.



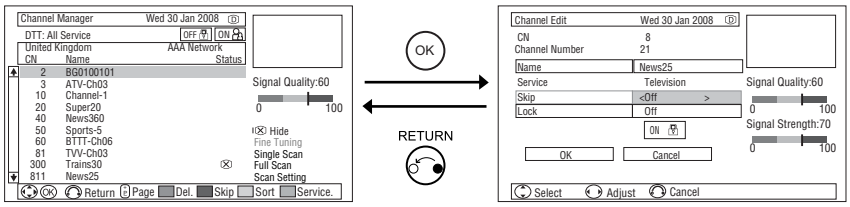
<Example: L37X01E>

Selected Items			Setup hint
			Display the channel list in TV mode along with adjustment features, such as add/delete the channels. (See 49.) In addition, press (OK) button to move to Channel Edit page as below.
Channel Edit*	Position		Display the preset position number (0~199).
	Search	C	Select the channel entry method, entering a two digit on-air channel number [C], a two digit S-band (CATV) number [S], or a three digit frequency [MHz], by pressing Green button. MHz: Use (◄►) button for Up/Down search.
		S	
		MHz	
	Descrambler	Off	Set this to Off normally. When you want to restore the picture and sound of a scrambled channel, set this to On. Connect a Descrambler to AV1, and select "TV" from "Scart Output". See 30 for the details.
		On	
	Name		1. Move the cursor to the first digit with ► button and select a letter with (▲▼) button or numeric button. 2. Move to the next digit with ► button. 3. Press (OK) button when you finish inputting all the letters. • Limit: 5 characters. The selectable characters are as follows: "a"~"z", "0"~"9", "&", "." (period), "+", "-", "*", "/", "!","A"~"Z", and " " (blank). • See 33 for the selectable characters by using numeric button. • To delete a character, use Red button.
	Sound System	BG	Select the sound system from 5 different modes.
		I	
		DK	
		L	
		L'	
	Colour System	Auto	Select colour system from 5 different modes.
		PAL	
		SECAM	
		NTSC4.43	
		NTSC3.58	
	NR	Off	The noise on the screen or interference could be reduced, especially at the area of weak electric field.
		On	
	Skip	Off	It allows you to skip unregistered channels automatically when you use channel up (+) down (-) button to select channels. This function will automatically skip unavailable channels when set to on.
		On	
	OK		Store the changes.
	Cancel		Cancel the changes.
Fine Tuning*	-56~+56		► : Increase the frequency data for the main tuner. ◄ : Decrease the frequency data for the main tuner.

MAIN MENU OPERATION (continued)

Channel Manager Menu (DTT mode)

With this menu, you can check channel list and access various kinds of features relating to DTT channel settings.
The menu items indicated by * can be automatically stored.



<Example: L37X01E>

Selected Items			Setup hint
			Display the channel list in DTT mode along with adjustment features, such as add/delete the channels. (See 50, 51.) In addition, press (OK) button to move to Channel Edit page as below.
Channel Edit*	Name		1. Move the cursor to the first digit with ► button and select the letter with (▲▼) button or numeric button. 2. Move to the next digit with ► button. 3. Press (OK) button when you finish inputting all the letters. • Limit: 32 characters. The selectable characters are as follows: “a”~“z”, “0”~“9”, “&”, “.” (period), “+”, “-”, “*”, “/”, “!”,“A”~“Z”, and “ ” (blank). • See below for the selectable characters by using numeric button. • When you press Green button during inputting, the space is inserted, and digits shift to the right. • To delete a character, use Red button.
	Skip	Off	It allows you to skip unregistered channels automatically when you use channel up (+) down (-) button to select channels. This function will automatically skip unavailable channels when set to on. By selecting “On,” the channel will be cancelled the Favourite setting if the channel sets as Favourite previously.
		On	
	Lock	Off	Set Lock On/Off by using (◄►) button on the remote control. To activate this function, set On “Channel Lock” of “Lock & Rating” from Function menu. See 45 page.
		On	
	OK		Store the changes for Name, Skip, and Lock by pressing (OK) button . If you change on Lock, the message will appear to input Lock key.
	Cancel		Cancel the changes for Name, Skip, and Lock.

NOTE

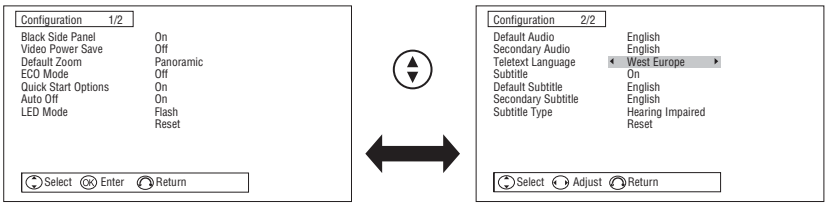
The following is the selectable characters for “Name” by using numeric button.

1	—	1	& . + – * / !
2	abc	2	ABC
3	def	3	DEF
4	ghi	4	GHI
5	jkl	5	JKL
6	mno	6	MNO
7	pqrs	7	PQRS
8	tuv	8	TUV
9	wxyz	9	WXYZ
0	—	0	<space>

MAIN MENU OPERATION (continued)

Configuration Menu

This menu provides various ways to protect your panel, reduce power consumption, and set up utilizing the useful functions, such as DVB subtitle setting.
The menu items indicated by * can be automatically stored.



<Example: L37X01E>

Selected Items		Setup hint
Black Side Panel	Off	This can change the colour of sidebars showing up in normal mode. (Off: grey, On: black) It is recommended to set Off to reduce image retention. This cannot be stored. (The default setting is Off.) Please note that it is not available whilst operating Photo Input function.
	On	
Video Power Save*	Off	During AV/RGB input, this helps to reduce power consumption when there is no signal detected for about 10 seconds. In case of selecting AV/RGB input terminal which does not have signal input, it changes the power status to power save mode in AV4/HDMI1, 2 and 3/RGB and standby mode in other AV input. (See 72 in details.)
	On	
Default Zoom*	Panoramic	This allows you set how a 4:3 picture will be displayed if you have selected Auto from the Zoom mode.
	4:3	
	Full	
	14:9 Zoom	
ECO Mode*	Off	This can reduce the power consumption by decreasing brightness.
	1	
	2	
Quick Start Options*	Off	Set On if you want to turn TV On quickly. If set On, power consumption at standby will be increased.
	On	
Auto Off*	Off	When no airwave has been received and no operation has been made for 10 minutes in TV/DTT mode, it turns to standby mode automatically.
	On	
LED Mode*	Off	This can set the operation of indicating lamp. • Flash: Indicating lamp pulses in blue when turning on. It blinks in blue when using remote control. • Off: It will not operate when turning On and using remote control.
	Flash	
Reset		Each item on this menu screen can be restored to the original factory settings by pressing (OK) button.

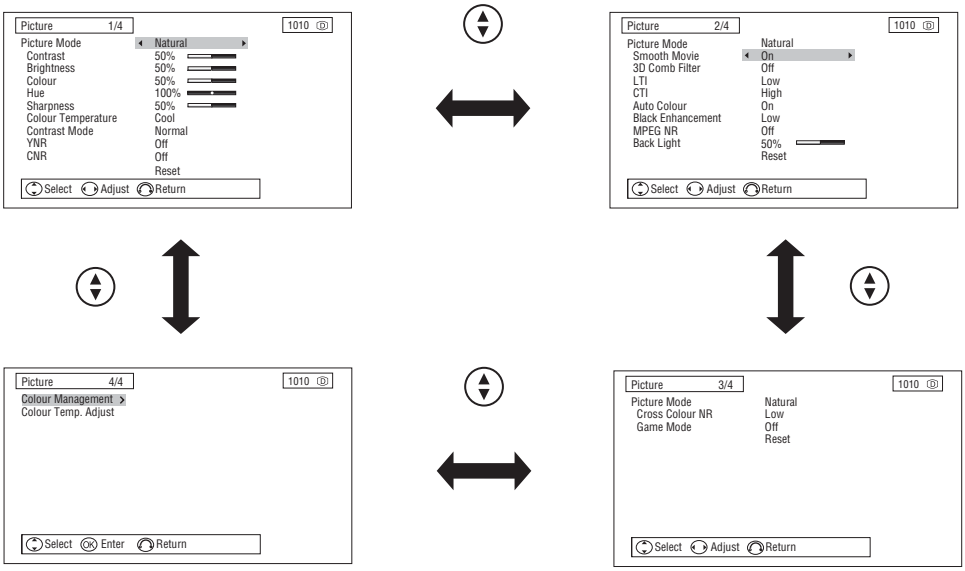
Configuration Menu (continued)

Selected Items		Setup hint
Default Audio*		This can set DTT initial audio from the following. • For L37X01U model: English → Welsh → Gaelic → Irish → Undefined • For L37X01E model: English → French → German → Spanish → Italian → Swedish → Danish → Finnish → Basque → Catalan → Dutch → Gallegan → Norwegian → Portuguese → Undefined (This is available only in DTT mode.)
Secondary Audio*		This can set DTT secondary audio from the following. English → French → German → Spanish → Italian → Swedish → Danish → Finnish → Basque → Catalan → Dutch → Gallegan → Norwegian → Portuguese → Undefined (This is available only for L37X01E model in DTT mode.)
Teletext Language*		The most appropriate Teletext Language is automatically selected depending on the country which you select in Easy Setup. In case that the text is not displayed correctly, for example, because of living near a border, select another area as below. West Europe: West European countries and Turkey (This is normal setting for use in Europe.) East Europe: East European countries Russian: Countries neighboring Russia and East Europian countries Farsi: Middle Eastern countries. (This is not available for MHEG Digital Teletext.)
Subtitle*	Off	This can set DVB subtitle Off/On. (This is available only in DTT mode.)
	On	
Default Subtitle*		You can set your preferred DVB subtitle language from the following. • For L37X01U model: English → Welsh → Gaelic → Irish → Undefined • For L37X01E model: English → French → German → Spanish → Italian → Swedish → Danish → Finnish → Basque → Catalan → Dutch → Gallegan → Norwegian → Portuguese → Undefined (This is available only in DTT mode.)
Secondary Subtitle*		You can set a preferred secondary language of DVB subtitle from the following. English → French → German → Spanish → Italian → Swedish Danish → Finnish → Basque → Catalan → Dutch → Gallegan → Norwegian → Portuguese → Undefined (This is available only for L37X01E model in DTT mode.)
Subtitle Type*	Normal	This can set preferentially-selected DVB subtitle type. (This is available only in DTT mode.)
	Hearing Impaired	
Reset		Each item on this menu screen can be restored to the original factory settings by pressing (OK) button.

MAIN MENU OPERATION (continued)

Picture Menu (TV/AV mode)

In this menu, you can make specific adjustments for the picture based on your preference.
By pressing ▼ button at the bottom of each menu page, the next Picture menu page will appear on the screen.
The menu items indicated by * can be automatically stored.



Selected Items		Setup hint
Picture Mode*	Dynamic	You can make the best selection from 3 modes depending on the lighting condition and intended use. Dynamic: Suitable for the brighter conditions. Natural : Suitable for the normal lighting condition. Cinema : Suitable for watching movie.
	Natural	
	Cinema	
Contrast*	0 ～ 100% (101 ～ 110%)	This adjusts the contrast to meet the lighting environment by using ◄► button. • The maximum value can be extended to [110%] by pressing and holding ► button at [100%]. This is the special feature prepared for the dark scenes. At the normal condition, it is recommended to set the value less than [100%].
Brightness*	0 ～ 100%	Adjust according to personal preference by using ◄► button.
Colour*	0 ～ 100%	Adjust according to personal preference by using ◄► button.
Hue*	0 ～ 100%	Pressing ◄ button enhances red and weakens green, whilst pressing ► button weakens red and enhances green. The setup hint is adjusting for the realistic skin colour.
Sharpness*	0 ～ 100%	Preferred sharpness can be adjusted by pressing ◄ button for softer image or ► button for sharper image.
Colour Temperature*	Cool	You can select from 4 settings (default) depending on the colour condition with ◄► button.
	Normal	
	Warm	
	Black/White	

MAIN MENU OPERATION (continued)

Picture Menu (TV/AV mode) (continued)

Selected Items		Setup hint
Contrast Mode*	Dynamic	It allows you to choose from 2 modes. Dynamic: Sharpen the gradation to improve the contrast feeling. Normal: Reproduce as faithful gradation as possible.
	Normal	
YNR*	Off	This is a noise reduction system for picture signal.
	Low	
	High	
CNR*	Off	This is a noise reduction system for colour signal.
	Low	
	High	
Reset		Each item on this menu screen can be restored to the original factory settings by pressing (OK) button.
Smooth Movie	Off	This helps to make the moving image smooth. Original: Automatically identify the source of movie film (3:2 pulldown, 2:2 pulldown) and faithfully reproduces the original film images. Smooth1: Automatically identify the source of movie film (3:2 pulldown, 2:2 pulldown) and reproduces the smooth motion. Smooth2: Reproduce the clear moving image. Off: Set to Off if the image does not look natural. *This is not available in the following case. -OSD is displayed. -"Game Mode" is On. -TV is in Multi picture mode. *See 38 for the detailed note.
	Original	
	Smooth1	
	Smooth2	
3D Comb Filter*	Off	This is available only when receiving NTSC/PAL composite signal. This reduces the dot and colour blurring in minute scales so that it can reproduce purer colour.
	Low	
	High	
LTI*	Off	Adjusts the sharpness of the picture signals.
	Low	
	Middle	
	High	
CTI*	Off	Adjusts the sharpness of the colour signals.
	Low	
	Middle	
	High	
Auto Colour*	Off	This monitors and adjusts the colour to maintain constant colour levels. It also maintains natural tones whilst preserving fidelity of background colours. This is available only when receiving an NTSC composite and S-Video signal.
	On	
Black Enhancement*	Off	Adjusts the black level compensation.
	Low	
	Middle	
	High	

MAIN MENU OPERATION (continued)

Picture Menu (TV/AV mode) (continued)

Selected Items			Setup hint
MPEG NR*		Off	This is a noise reduction system for MPEG picture signal. (ex. against mosquito noise and block noise.)
		Low	
		High	
Back Light		0~100%	Adjust the brightness of the Back Light for the maximum visibility.
Reset			Each item on this menu screen can be restored to the original factory settings by pressing (OK) button.
Cross Colour NR		Off	This reduces noise caused by colour mixture of adjacent pixels. This is not available when “Game Mode” is On.
		Low	
		High	
Game Mode		Off	This reduces the time-lag of speed whilst moving images are displayed during TV game play. This is not available in TV or DTT mode.
		On	
Reset			Each item on this menu screen can be restored to the original factory settings by pressing (OK) button.
Colour Management*	On	Magenta	On: Turn On to adjust the balance of each colours depending on the user’s preference. The settings reflect in each of the 4 Colour Temperature modes. Reset: Each item on “Colour Management” can be restored to the original factory setting. Off: Remains as default setting.
		Red	
		Yellow	
		Green	
		Cyan	
		Blue	
	Off		
Colour Temp. Adjust*	On	Drive	On: When you want to set specific adjustments in each of the 4 Colour Temperature modes. You can adjust on the Drive and Cutoff. The settings reflect on the Colour Temperature. Drive: Subdue the following colours on the brighter parts. Cutoff: Subdue the following colours on the darker parts. Reset: Each item on “Colour Temp. Adjust” can be restored to the original factory setting. Off: Remains as default setting.
		Red	
		Green	
		Blue	
		Cutoff	
		Red	
		Green	
		Blue	
	Off		

NOTE

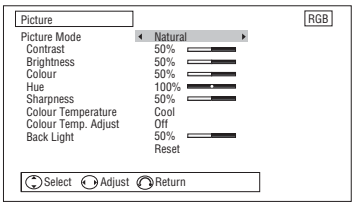
About Smooth Movie, the image might not look natural depending on the image contents.
Phenomena such as
- As switching the subtitles of a film or images, the image displays with fine horizontal streak lines.
- As switching the scenes such as commercial and animation, the image displays with fine horizontal streak lines.
- When displaying a ticker or subtitle, the text on the image becomes rough (aliasing).
- When you watch the image form AV input which is connecting to any external equipment, the OSD of external equipment displays with fine horizontal streak lines.

These phenomena occur due to the method of converting the image.
Please note that this is not malfunction.
In case that it is disturbing, please set to Off.
In addition, the effect of this menu might vary depending on the size switching (See 59 ~ 61).
Also, this might be ineffective depending on the scene of image.

MAIN MENU OPERATION (continued)

Picture Menu (RGB mode)

In this menu, you can make specific adjustments for the RGB picture based on your preference.
By pressing ▼ button at the bottom of each menu page, the next Picture menu page will appear on the screen.
The menu items indicated by * can be automatically stored.

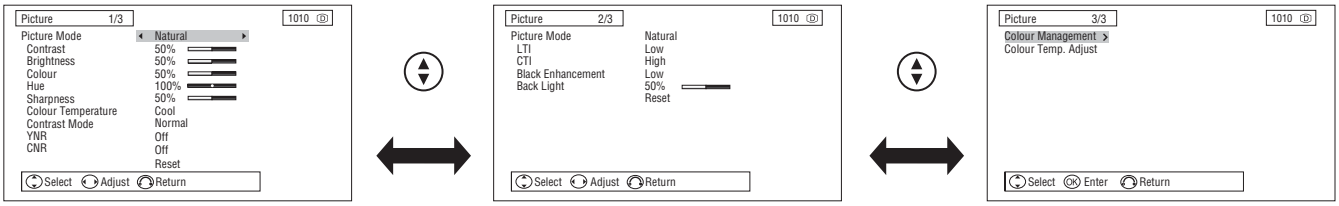


Selected Items			Setup hint
Contrast*		0 ～ 100% (101 ～ 110%)	This adjusts the contrast to meet the lighting environment by using ◄► button. • The maximum value can be extended to [110%] by pressing and holding ► button at [100%]. This is the special feature prepared for the dark scenes. At the normal condition, it is recommended to set the value less than [100%].
Brightness*		0 ～ 100%	Adjust according to personal preference by using ◄► button.
Colour*		0 ～ 100%	Adjust according to personal preference by using ◄► button.
Hue*		0 ～ 100%	Pressing ◄ button enhances red and weakens green, whilst pressing ► button weakens red and enhances green. The setup hint is adjusting for the realistic skin colour.
Sharpness*		0 ～ 100%	Preferred sharpness can be adjusted by pressing ◄ button for softer image or ► button for sharper image.
Colour Temperature*		Cool	You can select from 4 settings (default) depending on the colour condition with ◄► button.
		Normal	
		Warm	
		Black/White	
Colour Temp. Adjust*	On	Drive	On: When you want to set specific adjustments in each of the 4 Colour Temperature modes. You can adjust on the Drive and Cutoff. The settings reflect on the Colour Temperature. Drive: Subdue the following colours on the brighter parts. Cutoff: Subdue the following colours on the darker parts. Reset: Each item on “Colour Temp. Adjust” can be restored to the original factory setting. Off: Remains as default setting.
		Red	
		Green	
		Blue	
		Cutoff	
		Red	
		Green	
		Blue	
	Off		
Back Light		0~100%	Adjust the brightness of the Back Light for the maximum visibility.
Reset			Each item on this menu screen can be restored to the original factory settings by pressing OK button.

MAIN MENU OPERATION (continued)

Picture Menu (Photo mode)

In this menu, you can make specific adjustments for the picture of photo mode based on your preference.
By pressing ▼ button at the bottom of each menu page, the next Picture menu page will appear on the screen.
The menu items indicated by * can be automatically stored.



Selected Items		Setup hint
Picture Mode*	Dynamic	You can make the best selection from 3 modes depending on the lighting condition and intended use. Dynamic: Suitable for the brighter conditions. Natural : Suitable for the normal lighting condition. Cinema : Suitable for watching movie.
	Natural	
	Cinema	
Contrast*	0 ～ 100% (101 ～ 110%)	This adjusts the contrast to meet the lighting environment by using ◄► button. • The maximum value can be extended to [110%] by pressing and holding ► button at [100%]. This is the special feature prepared for the dark scenes. At the normal condition, it is recommended to set the value less than [100%].
Brightness*	0 ～ 100%	Adjust according to personal preference by using ◄► button.
Colour*	0 ～ 100%	Adjust according to personal preference by using ◄► button.
Hue*	0 ～ 100%	Pressing ◄ button enhances red and weakens green, whilst pressing ► button weakens red and enhances green. The setup hint is adjusting for the realistic skin colour.
Sharpness*	0 ～ 100%	Preferred sharpness can be adjusted by pressing ◄ button for softer image or ► button for sharper image.
Colour Temperature*	Cool	You can select from 4 settings (default) depending on the colour condition with ◄► button.
	Normal	
	Warm	
	Black/White	
Contrast Mode*	Dynamic	It allows you to choose from 2 modes. Dynamic: Sharpen the gradation to improve the contrast feeling. Normal: Reproduce as faithful gradation as possible.
	Normal	
YNR*	Off	This is a noise reduction system for picture signal.
	Low	
	High	
CNR*	Off	This is a noise reduction system for colour signal.
	Low	
	High	
Reset		Each item on this menu screen can be restored to the original factory settings by pressing OK button.

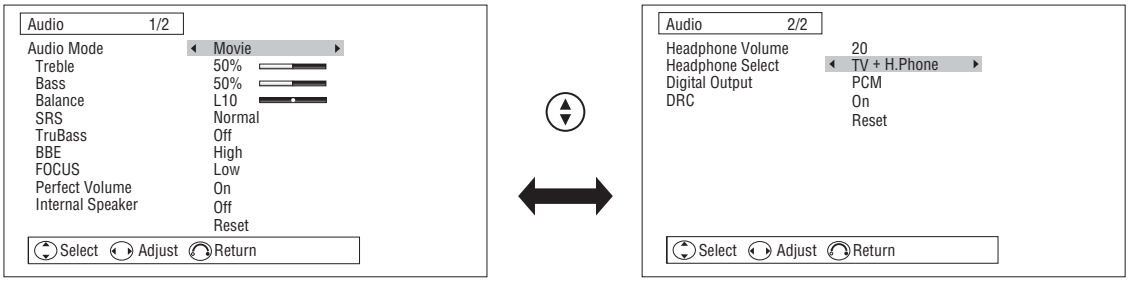
Picture Menu (Photo mode) (continued)

Selected Items			Setup hint
LTI*		Off	Adjusts the sharpness of the picture signals.
		Low	
		Middle	
		High	
CTI*		Off	Adjusts the sharpness of the colour signals.
		Low	
		Middle	
		High	
Black Enhancement*		Off	Adjusts the black level compensation.
		Low	
		Middle	
		High	
Back Light		0~100%	Adjust the brightness of the Back Light for the maximum visibility.
Reset			Each item on this menu screen can be restored to the original factory settings by pressing (OK) button.
Colour Management*	On	Magenta	On: Turn On to adjust the balance of each colours depending on the user's preference. The settings reflect in each of the 4 Colour Temperature modes. Reset: Each item on "Colour Management" can be restored to the original factory setting. Off: Remains as default setting.
		Red	
		Yellow	
		Green	
		Cyan	
		Blue	
	Off		
Colour Temp. Adjust*	On	Drive	On: When you want to set specific adjustments in each of the 4 Colour Temperature modes. You can adjust on the Drive and Cutoff. The settings reflect on the Colour Temperature. Drive: Subdue the following colours on the brighter parts. Cutoff: Subdue the following colours on the darker parts. Reset: Each item on "Colour Temp. Adjust" can be restored to the original factory setting. Off: Remains as default setting.
		Red	
		Green	
		Blue	
		Cutoff	
		Red	
		Green	
		Blue	
	Off		

MAIN MENU OPERATION (continued)

Audio Menu

With this menu, you adjust and customize the audio condition as you like.
You can move on to the next menu screen by pressing ▼ button at the bottom.
The menu items indicated by * can be automatically stored.



Selected Items		Setup hint
Audio Mode*	Movie	You can select the most suitable sound condition from 4 alternatives according to the contents. If you want to adjust each item value based on your preference, select “Favourite”.
	Music	
	Speech	
	Favourite	
Treble*	0 ～ 100%	Adjust the Treble.
Bass*	0 ～ 100%	Adjust the Bass.
Balance*	L30 ～ R30	Adjust the balance of the sound from bottom right and left speakers.
SRS*	Off	This system gives you the dynamic 3D sound. Select it depending on your preference.
	Normal	
	Wide	
TruBass*	Off	TruBass gives you the enhanced bass sound. Select it depending on your preference.
	Low	
	High	
BBE*	Off	BBE High Definition Sound restores clarity and presence for better speech intelligibility and musical realism. Select it depending on your preference.
	Low	
	High	
FOCUS*	Off	This gives you more natural and realistic sound by shifting up audio image (sound image). By making clear outline of sound, it gets easier to hear speaking voice such as news.
	Low	
	High	
Perfect Volume*	Off	It will automatically adjust the volume to its average level each time you change the channel.
	On	
Internal Speaker*	Off	This needs to be switched to Off when you want to listen to audio from external equipment. It is normally set On when you operate the television using the built-in speakers.
	On	
Reset		Each item on this menu screen can be restored to the original factory settings by pressing (OK) button.

MAIN MENU OPERATION (continued)

Audio Menu (continued)

Selected Items		Setup hint
Headphone Volume*	0 ~ 60	It allows you to adjust the volume of the headphone.
Headphone Select*	TV+H.Phone	You can hear the sound from both speakers and headphone.
	H.Phone only	You will hear the sound only from headphone.
Digital Output*	Dolby Digital	This function allows you to select between Dolby® Digital and PCM either of which connected amplifier has. This setting will be fed into optical output. Dolby® Digital provides six independent track channels, and PCM provides two independent soundtrack channels.
	PCM	
DRC* (Dynamic Range Compression)	Off	Use this function to compress the range of sound volume. It is possible not only to suppress the output of loud sound at night, but also to raise the volume of low sound. The default setting is ON.
	On	
Reset		Each item on this menu screen can be restored to the original factory settings by pressing (OK) button.

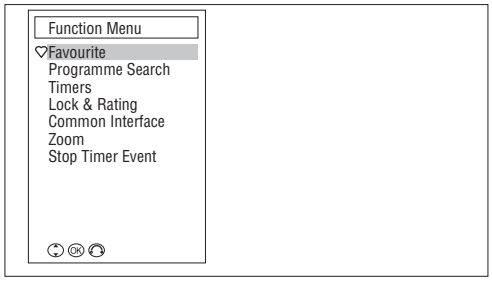
NOTE

• Digital Output and DRC are only available when viewing digital programme, and selecting Dolby® Digital Audio in the programme. See 56 for details.

FUNCTION MENU OPERATION

Basic Mode

This can access to various kinds of useful features, such as EPG and timers. If you press FUNCTION button on remote control at normal mode, the following menu appears.



Selected Items			Setup hint
Favourite			This gives access to Favourites page which allows you to set a channel as Favourite. See 55 to set as favourite channels.
Programme Search	Channel Category		You can search for programmes. When you select "Programme Search" and press (OK) button, Search Condition screen is displayed. Select a search condition (Category / Programme Type / Date) by using (▲▼) button, and select the value of each items by using (◄►) button. After setting the search condition, select [Search]. In case that time is not acquired from DTT broadcast, or no channel is stored in DTT channel list, this is not available. (This is available only in DTT mode.)
	Programme Type		
	Date		
Timers	Programme Timers		This reminds you that the desired programme is about to start even whilst you are watching another channel. This is available only if TV obtains the current time information from DTT broadcasting. See 53 for the detailed.
	Off Timer	--min.	This function automatically sets the power to Standby mode when the selected time period has elapsed.
		30min.	
		60min.	
		90min.	
		120min.	
	On Timer	--h--m	This function automatically sets the power from standby mode to On when the specified time period has elapsed. Input the desired time within the range of 00h01m to 11h59m by using (▲▼) button on the remote control.
	Auto Clock	DTT	Select if the date and time information is acquired automatically. DTT: The date and time information can be acquired from DTT signal automatically. Teletext: The date and time information can be acquired from analogue Teletext automatically only when the channel number selected at "Teletext Position" is selected. Off: Set the current date and time at "Date" and "Time" menu.
		Teletext	
		Off*	
	Teletext Position		When using the date and time information acquired from analogue Teletext, select one of the channel numbers which corresponds to analogue Teletext with (◄►) button.
	Date		You can set the current date and time manually here when "Off" is selected at "Auto Clock". When "DTT" or "Teletext" is selected at "Auto Clock", the current date and time acquired automatically are displayed.
	Time		
	Time Offset	-3~+3	If the time information in Programme Information, Electronic Programme Guide (EPG), or the current time is incorrect, the correct time can be set in 1-hour steps. It cannot be changed if you do not have time information.

FUNCTION MENU OPERATION (continued)

Basic Mode (continued)

Selected Items			Setup hint
Lock & Rating	Channel Lock	Off	If set On, the selected channels can be locked so that it cannot be selected without 4 digit codes. To select the channel to lock, go to “Channel Manager” from main menu. See 33 for the details. (This is available only in DTT mode.)
		On	
	Rating Lock	Off	If set On, this avoids watching a programme by the age selected in “Rating Age”. (This is available only for L37X01E model in DTT mode.)
		On	
	Rating Age	4~18	You can select age to lock a programme. (This is available only for L37X01E model in DTT mode.)
	Menu Lock	Off	This avoids entering “Channel Manager,” “Configuration,” and “Initial Setup” of main menu without lock key. (This is available only in DTT mode.)
		On	
Common Interface			You can confirm the module information which depends on the module inserted. Please ask the service provider if the module type is suitable for TV. The TV supports module meeting DVB standard. (This is available only in DTT mode.)
Zoom			You can select the most suitable display size. The selectable size varies depending on the input mode. See 59 ~ 61 for the details. By pressing button on the remote control, you can also change the zoom mode.
Stop Timer Event			You can stop the running timer event. This menu item is available only whilst running timer event.

NOTE

- Each time the setting is changed in “Lock & Rating”, Lock key is required to input in order to enable the new setting. Enter the current Lock Key or “7777”. (See 31 about “Lock Key”.)

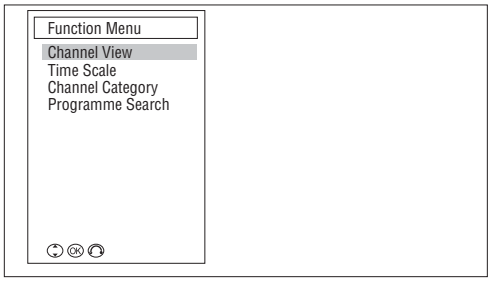
* Select “Off” if the date and time acquired from DTT or analogue Teletext signal is incorrect.
* If “Off” is selected the set will not automatically switch between Summer and Winter time. The correct time will have to be set manually each time the clocks change.

FUNCTION MENU OPERATION (continued)

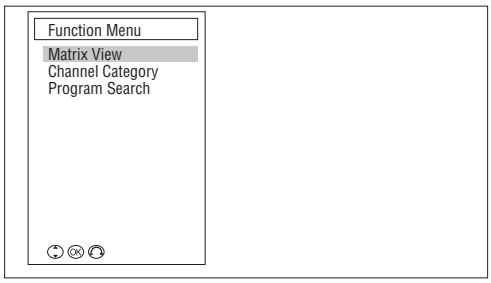
Guide Mode [DTT mode only]

If you press FUNCTION button on the remote control during EPG mode, the following menu appears. See 52 for the details about EPG.

Matrix View



Channel View



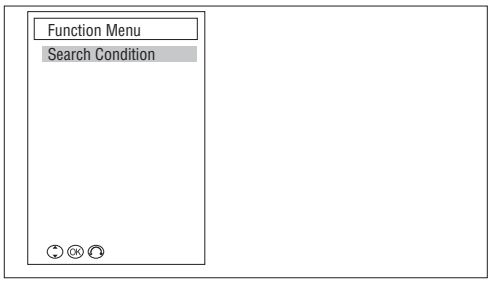
Selected Items		Setup hint
Matrix View/Channel View	Matrix View	Select a type of the EPG display.
	Channel View	
Time Scale	1 hour	Change the unit of time for the event information table. Matrix mode only.
	2 hours	
	4 hours	
Channel Category		You can select a channel category displayed in EPG by using ◄► button. • All Channels: All channels registered in Channel List • Free Ch: Channels except scrambled channels • Pay Ch: Scrambled channels • Radio: Radio broadcasting service channels • Information: Data broadcasting channels (L37X01U model only) • Favourite1~6: Channels registered in each page of Favourite. (See 55.) • All Favourites: Channels registered in all Favourite pages. Except channels that “Skip On” is set in Channel Manager menu.
Programme Search	Channel Category	You can search for programmes. When you select “Programme Search” and press OK button, Search Condition screen is displayed. Select a search condition (Category / Programme Type / Date) by using ▲▼ button, and select the value of each items by using ◄► button. After setting the search condition, select Search. In case that time is not acquired from DTT broadcast, or no channel is stored in DTT channel list, this is not available.
	Programme Type	
	Date	

FUNCTION MENU OPERATION (continued)

Programme Search Mode

[DTT mode only]

If you press FUNCTION button on the remote control during programme search, the following menu appears.

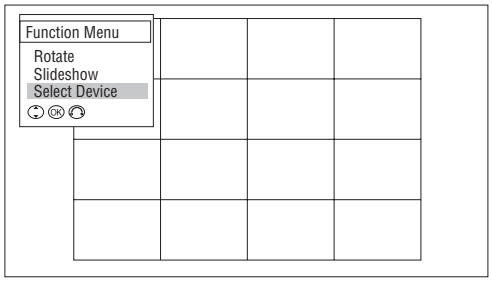


Selected Items		Setup hint
Search Condition	Channel Category	You can search for programmes. When you select “Search Condition” and press OK button, Search Condition screen is displayed. Select a search condition (Category / Programme Type / Date) by using ▲▼ button, and select the value of each items by using ◄► button. After setting the search condition, select Search. In case that time is not acquired from DTT broadcast, or no channel is stored in DTT channel list, this is not available.
	Programme Type	
	Date	

FUNCTION MENU OPERATION (continued)

Photo Input Mode

If you press FUNCTION button on the remote control whilst using Photo Input function, the following menu appears.
See 65, 66 for the details.



Selected Items		Setup hint
Rotate		The selected picture is rotated in the sequence of the following. → 90° ↔ 180° ↔ 270° ↔ 0° ←
Slideshow	5Sec.	Select a preferred interval time.
	10Sec.	
	30Sec.	
Select Device	A: SD	Select one device which you want to use. • C~I: USB...Available if more drive on USB. • J: USB.....Might appear depending on the type of connected digital still camera.
	B: USB (C~I: USB) (J: USB)	

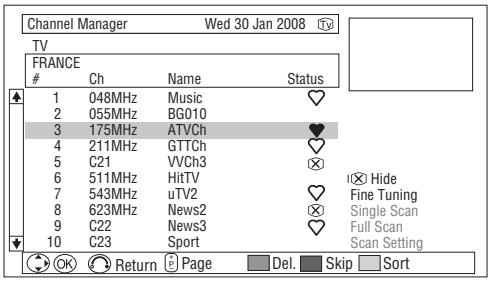
FEATURES

Channel List (TV mode)

You can adjust channel setting on channel list from Channel Manager menu.

1. Press MENU button on the remote control in TV mode.
2. Select "**Channel Manager**" from Main Menu.
3. Channel list shows up with those status marks.

♥....Favourite channel
⊗....Skip channel



<Example: L37X01E>

4. You can adjust channel list with the following remote control keys.

▲▼	Select items of Channel List. The picture of selected channel is displayed at upper right screen.
P+ P−	Move to the next/previous page of Channel List if the number of channel is more than 11.
OK	Jump to "**Channel Edit**".
◄►	Switch between Channel List and setting section at the lower right.
Red (Del.)	Delete the selected channel from the list. If you select [Continue] on the appeared message, the channel will be deleted. The channel is deleted also from Favourite.
Green (Skip)	Set "Skip On/Off" of the selected channel. By selecting "On," the channel will be canceled from the Favourite setting if the channel sets as Favourite previously.
Yellow (Sort)	Sort the channel position on the Channel List. 1) Press **Yellow** button whilst selecting the channel which you wish to sort. 2) Select the destination by using ▲▼ button. 3) Press OK button.

5. You can use the detailed setting by using setting section shown on the lower right.

Hide	You can hide/show the channel which sets as "Skip On" by pressing OK button whilst selecting "**Hide**". On: If set as "Skip On," the channel is not displayed on Channel List. The indicator located on the left of the icon ⊗ will be green. Off: Display all channel on the Channel List regardless of "Skip On/Off". The indicator located on the left of the icon ⊗ will be black.
Fine Tuning	Fine-tune the selected channel. Pressing OK button leads to the detailed setting screen.

6. Press RETURN button (several times if necessary) on the remote control to return to Normal screen.

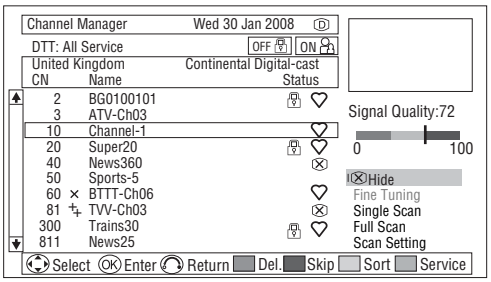
• Press TV/DTT button on the remote control to switch to DTT Channel Manager screen.
• Press OK button to move to Channel Edit page. See 32 for the details.

FEATURES (continued)

Channel List (DTT mode)

You can adjust channel setting on channel list from Channel Manager menu.

1. Press MENU button on the remote control in DTT mode.
2. Select "**Channel Manager**" from Main Menu.
3. Channel list shows up with those status marks.



<Example: L37X01E>

♥ ....Favourite channel

⊗ ....Skip channel

🔒 ....Lock channel

+ .....Channel newly added by using "Single Scan", "Full Scan", and "Scan Setting". (Once selected, it disappears.)

× .....Channel deleted from network by using "Single Scan", "Full Scan", and "Scan Setting". (Press Red (Del.) to delete it.)

4. You can adjust channel list with the following remote control keys.

▲▼	Select items of Channel List. The picture of selected channel is displayed at upper right screen.
+P−	Move to the next/previous page of Channel List if the number of channel is more than 11.
OK	Jump to "**Channel Edit**".
◄►	Switch between Channel List and setting section at the lower right.
Red (Del.)	Delete the selected channel from the list. If you select [Continue] on the appeared message, the channel will be deleted. The channel is deleted also from Favourite.
Green (Skip)	Set "Skip On/Off" of the selected channel. By selecting "On," the channel will be canceled the Favourite setting if the channel sets as Favourite previously.
Yellow (Sort)	Sort the channel position on the Channel List. 1) Press **Yellow** button whilst selecting the channel which you wish to sort. 2) Select the destination by using ▲▼ button. 3) Press OK button.
Blue (Service)	Switch the category for Channel List. Each time pressing this button, it switches as follows. All Service→Television→Radio→*Data→All Service

* Data is available only for L37X01U model.

FEATURES (continued)

Channel List (DTT mode) (continued)

5. You can use the detailed setting by using setting section shown on the lower right.

Hide		Off	You can hide/show the channel which sets as “Skip On” by pressing (OK) button whilst selecting “**Hide**”. Off: Display all channels on the Channel List & EPG regardless of “Skip On/Off”. The indicator located on the left of the icon ⊗ will be black. On: If set as “Skip On,” the channel is not displayed on Channel List & EPG. The indicator located on the left of the icon ⊗ will be green.
		On	
Single Scan			Search Digital channels manually. Input the channel number by numeric key on the remote control. Then, select [Scan] and press (OK) button to start scanning. If a new channel is found, it will be added to the Channel List.
Full Scan			Search Digital channels automatically. (auto search) Select [Continue] & press (OK) button to start scanning all Digital channels. Once Full Scan is applied, the setting for channel list, Favourite Channel, View Timer, and Channel Lock will be restored to the original setting.
Scan Setting (L37X01E model only)	In Standby	Off	If set On, this operates Full Scan whilst TV is in Standby/Off. (The default setting is On.)
		On	
	In Operate	Off	If set On, this operates Full Scan whilst TV is On. It automatically starts scanning at set time. (The default setting is Off.)
		On	
	Time		Select the start time for Auto Scan. (The default time is 02:30.) By using (◄►) button, select a position to input, and input a desired time by using (▲▼) button.
	Interval	Daily	Select the preferred interval. (The default setting is Daily.)
		Weekly	

6. Press RETURN button (several times if necessary) on the remote control to return to Normal screen.

• Press TV/DTT button on the remote control to switch to TV Channel Manager screen.
• Press (OK) button to move to Channel Edit page. See 33 for the details.

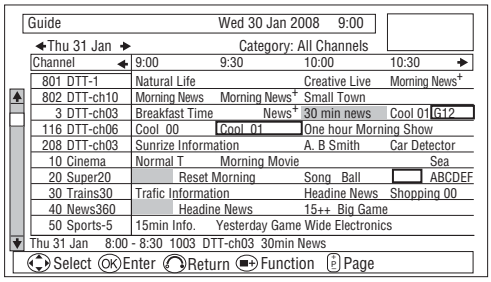
FEATURES (continued)

Electronic Programme Guide (EPG) [DTT mode only]

EPG screen displays a list of the stored channels along with information on what programmes are being broadcast, if the service is available.

1. Press GUIDE button to display EPG screen.
2. EPG screen is displayed.
   Select a type of EPG display from either Matrix View or Channel View by pressing FUNCTION button and selecting "**Matrix View/Channel View**" (if necessary). See 46.

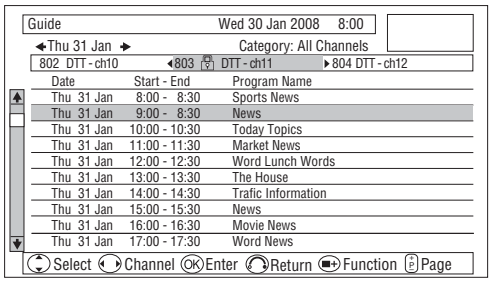
[Matrix View]



3. Select programmes using the following buttons.

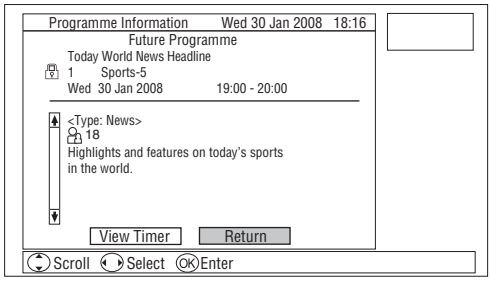
Button	Matrix View	Channel view
◄►	Shifts from side to side.	Changes channels.
▲▼	Shifts up and down.	Changes programmes.
RED	Time backward per page	—
GREEN	Time forward per page	—
YELLOW	Day backward	
BLUE	Day forward	
+ P −	10 channels backward and forward	10 programmes backward and forward
RETURN	Exits from EPG.	

[Channel View]


Guide
Wed 30 Jan 2008 8:00
Thu 31 Jan
Category: All Channels
802 DTT - ch10
803 DTT - ch11
804 DTT - ch12
Date
Start - End
Program Name
Thu 31 Jan 8:00 - 8:30 Sports News
Thu 31 Jan 9:00 - 8:30 News
Thu 31 Jan 10:00 - 10:30 Today Topics
Thu 31 Jan 11:00 - 11:30 Market News
Thu 31 Jan 12:00 - 12:30 Word Lunch Words
Thu 31 Jan 13:00 - 13:30 The House
Thu 31 Jan 14:00 - 14:30 Trafic Information
Thu 31 Jan 15:00 - 15:30 News
Thu 31 Jan 16:00 - 16:30 Movie News
Thu 31 Jan 17:00 - 17:30 Word News
Select Channel Enter Return Function Page

4. Press OK button to show Programme Information.
   You can scroll the Programme Information screen with ▲▼ button.
   If you need the following operation, select the preferred item with ◄► button and then press OK button.

[Programme Information]



<Example: L37X01E>

View	To show the programme. (EPG screen ends.) This is available whilst the programme is currently on air.
View Timer	To set View Timer screen. See 53, 54. This is available in the future programmes.
Return	To exit from Programme Information.

5. Press GUIDE button again to return to the normal screen.

NOTE

- You can adjust view settings and search for programmes during EPG by pressing FUNCTION button. See 46 for the details.
- The number of days displayed in EPG may be varied depending on the country.
- Not all channels broadcast all programme information data. Some channels do not provide programme name and details. In that case, only channel names are displayed.

FEATURES (continued)

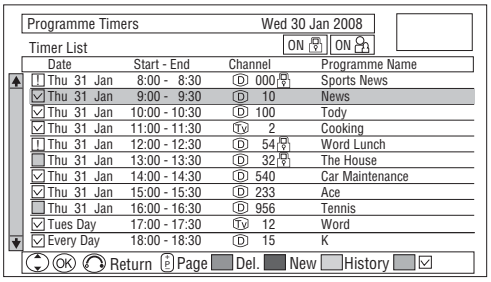
Programme Timers

Timer Programming is available not only to record multiple programme but also to remind you that the desired programme is about to start whilst you are watching another channel.

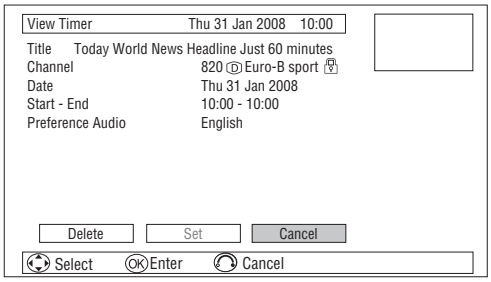
[To set View Timer]

1. Press FUNCTION button to display Function Menu.
2. By using button, select "**Timers**" from Function Menu, and then press OK button.
3. Select "**Programme Timers**" by using button, and then press OK button. Timer List appears.
4. Move to the bottom of the list by using button until "**New**" appears.
5. Then, press OK button on the remote control.
   It moves to View Timer screen to register the details (channel, date, etc).

*You can also move to View Timer screen by pressing Green button when Timer List appears.


Programme Timers
Wed 30 Jan 2008
Timer List
ON
ON
Date
Start - End
Channel
Programme Name
Thu 31 Jan 8:00 - 8:30 000 Sports News
Thu 31 Jan 9:00 - 9:30 10 News
Thu 31 Jan 10:00 - 10:30 100 Tody
Thu 31 Jan 11:00 - 11:30 2 Cooking
Thu 31 Jan 12:00 - 12:30 54 Word Lunch
Thu 31 Jan 13:00 - 13:30 32 The House
Thu 31 Jan 14:00 - 14:30 540 Car Maintenance
Thu 31 Jan 15:00 - 15:30 233 Ace
Thu 31 Jan 16:00 - 16:30 956 Tennis
Tues Day 17:00 - 17:30 12 Word
Every Day 18:00 - 18:30 15 K
Return
Page
Del.
New
History

<Example: L37X01E>



6. Input the following information.

Title	1. Use button to change the position to input. 2. Input the title by using button and numeric button on the remote control. 3. Press OK button to set up the title. • Limit: 40 characters • See 54 for the selectable characters by using numeric button. • To delete a character, use Red button.
Channel	Change the channel by using button. If necessary, switch between TV and DTT with TV/DTT button.
Date	Set the date by using button. (up to 30 days)
Start-End	1. Use button to change the position to input. 2. Change the time by using button. 3. Press OK button to set up the time.
Preference Audio	Set up the preference audio by using button.

7. Set the timer by using the following button.

Delete	This is available only for editing the item which previously set timer. Press OK button to delete.
Set	Press OK button to set the timer.
Cancel	Press OK button to cancel the timer.

8. The message as "View Timer will start shortly" appears 20 seconds before the desired programme starts, and the channel is switched automatically.

NOTE

• The selected channel can be watched or recorded via Scart 1 Output. Refer to 16 for the details.

FEATURES (continued)

Programme Timers (continued)

● Check the status of the selected channel/programme:
Check the following marks on the Timer List, which might reflect on your setting.

ON	The selected channel has Channel Lock. See 45 for the details.
ON	The selected channel has Rating Lock. (Only for L37X01E model.) See 45 for the details.
!	The selected channel has Channel Lock.
✓	The channel with ✓ will be executed the timer. (The channel with ■ does not have timer setting.)

● To cancel the timer:
Select the programme on the Timer list by using ▲▼ button on the remote control.
Then, press **Red** button to delete the selected timer.

● To check timer history:
Press **Yellow** button whilst the Timer List is displayed.

● To check timer execution:
Press **Blue** button whilst the Timer List is displayed.
This can switch between executed and unexecuted items.

● To stop the running timer event.
Press FUNCTION button whilst running timer event.
Select "**Stop Timer Event**" and press OK button.

NOTE

• You can set a timer up to 33 programmes.
• You can also access to View Timer from EPG. See 52 for the details.
• Photo Input function and Multipicture function are not available whilst running View Timer.
• The following is the selectable characters for "Title" by using numeric button. See 53 for details.

1	—	1	& . + – * / !
2	abc	2	ABC
3	def	3	DEF
4	ghi	4	GHI
5	jkl	5	JKL
6	mno	6	MNO
7	pqrs	7	PQRS
8	tuv	8	TUV
9	wxyz	9	WXYZ
0	—	0	<space>

FEATURES (continued)

Setting Favourite Mode

You can register your favourite list of channels.

[Favourite]

Favourite
10
1
803 Music TV 30min News 8:30
6 DTT-Ch06 30min News 8:30
100 News-Ch10 Headline News/We 8:45
801 DTT-Ch01 Golf Match 8:30
200 BG01001010 Afternoon Movie 10:30
12 Sport-Z Sports News 8:30
11 × Natural TV Nature Documenta··· 8:30
Del. Add Info

1. Select "**Favourite**" in Function Menu. Refer to 44.
2. Change pages using ◄► button and select channels using ▲▼ button. And then select the following buttons.

Red (Del.)	Deletes a registered channel.
Green (Add)	Registers a channel.
Blue (Info)	Switches on and off the display of Programme name and End time. (DTT only)

3. Press OK button to activate the settings.

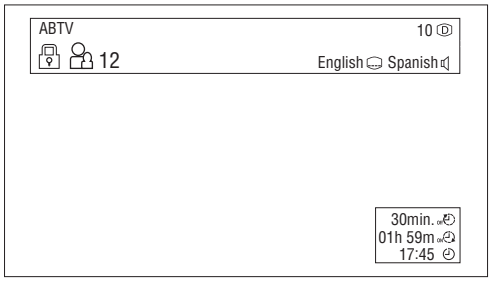
NOTE

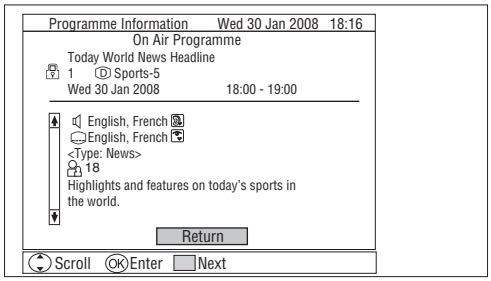
- If you set a favourite channel to "Skip On" in **Channel Manager** menu, the channel will be deleted from Favourite.
- If a channel is deleted from network by using **Channel Manager** menu, the icon × will appear on the list of favourite channels. Refer to 50.
- If a channel is deleted from Channel Manager, the channel is deleted also from Favourite.

Information Banner [DTT mode only]

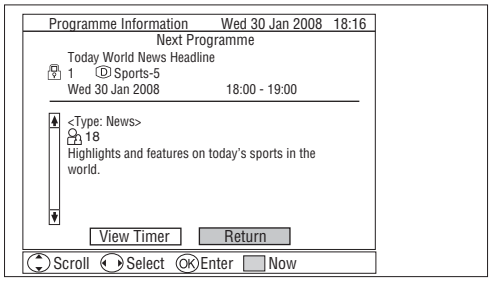
Whenever a channel is switched or i+ button is pressed, the information banner is displayed on top.
Whilst information banner is displayed, press i+ button one more time, the description currently being broadcast shows up.

1. Press i+ button on the remote control.
   The input signal status will be displayed.
   (See 27 for the details.)
2. Press i+ button again whilst the status display is displayed.
   Information Banner is displayed as shown right. It contains various information such as programme's detailed information, or audio language.
3. Select press **Yellow** button to switch to next programme information.
4. Select Return or i+ button again to go back to normal screen.
   And, select View Timer to set a timer.
   (See 53, 54 about the View Timer.)





[Current Programme Information]
<Example: L37X01E>


Programme Information Wed 30 Jan 2008 18:16
Next Programme
Today World News Headline
1 Sports-5
Wed 30 Jan 2008 18:00 - 19:00
<Type: News>
18
Highlights and features on today's sports in the world.
View Timer
Return
Scroll Select OK Enter Now

[Next Programme Information]
<Example: L37X01E>

Icon	For	Conditions
	Visually impaired	If the programme provides audio/ subtitle (DVB) service for the visually impaired or the hearing impaired, the icons will appear.
	Hearing impaired	
DD	Dolby® Digital Audio	If the programme provides audio service with the Dolby® Digital Audio or Dual Mono Audio, the icon will appear.
[A]	Left side of Dual Mono Audio	
[B]	Right side of Dual Mono Audio	
[A/B]	Both side of Dual Mono Audio	

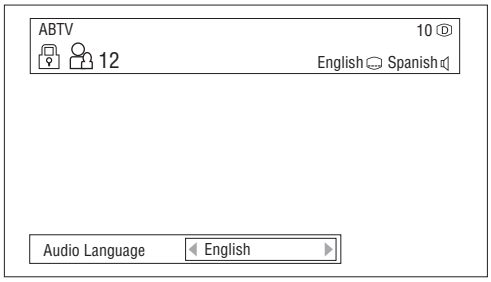
FEATURES (continued)

Audio Language [DTT mode only]

The available Audio Language provided in the current programme can be selected.

1. Press **I/II** button on the remote control during DTT mode.

2. You can select one of the languages by using ◄► button.



NOTE

- If no audio is provided from the programme, “No Language” appears on the banner.
- The audio language which is preferentially selected as changing channel can be set up in **Configuration** menu. See 35 for the details.
- Dolby® Digital need to be selected in Digital Output of Audio Menu to enjoy the programme in which Dolby® Digital Audio is provided. See 43 and 55 for details.

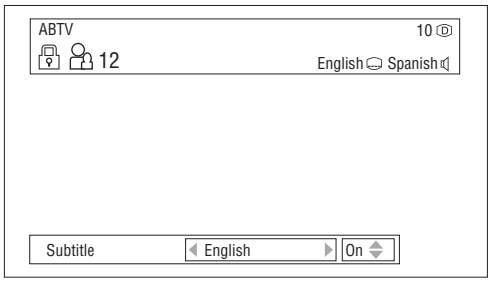
DVB Subtitle and DVB Subtitle Language [DTT mode only]

You can set DVB Subtitle On here, and the available DVB Subtitle Language provided in the current programme can be selected.

1. Press 💬 button on the remote control during DTT mode.

2. You can select one of the languages by using ◄► button.

3. If you want to activate/deactivate the DVB subtitle now, set to On/Off by using ▲▼ button on the right side of banner.

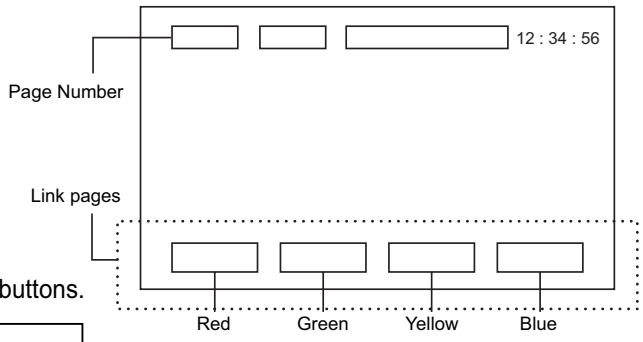


NOTE

- If no DVB subtitle is provided from the programme, “No Language” appears on the banner.
- The subtitle language (DVB) which is preferentially selected as changing channel can be set up in **Configuration** menu. See 35 for the details.

FEATURES (continued)

Analogue/Digital Teletext



This teletext supports the following.
- **TV mode: All models**
- **DTT mode: L37X01E**

• How to operate the Teletext

The Teletext can be simply displayed by pressing the remote control buttons.

NOTE
Select Teletext language from **Configuration** menu shown on 35 .

Operation	Press
To activate Teletext mode. To exit from the Teletext mode.	[TV⇔Text]
To move to the next or previous page.	[Page Select]
To jump to the indicated page. (Time-out is 4 seconds in DTT mode.)	0 ~ 9 [Page Select]
To split the screen into two and watch both Teletext information and actual broadcast at the same time. Press again to watch Teletext on a single screen.	[Text⇔TV+Text]
To display Index page.	[Index]
To access Teletext Subtitle service (if the channel has the Teletext Subtitle service broadcasting). • In TV mode, press this button directly. • In DTT mode, press this button after pressing button (to activate Teletext mode first). Please note that pressing this button directly in DTT mode (before activating Teletext mode) leads to DVB subtitle.	[Subtitle]
To display hidden text. ex. The answers of the Quiz or the Game page. Press again to close the revealed answer.	[Reveal]
To return to actual broadcast temporarily whilst searching for the Teletext page you request. When the search is done, the designated page # will be displayed on the upper left of the screen. Press again to return to Teletext page.	[Cancel]
To access the link pages which are displayed at the bottom of the page. (Select the buttons corresponding to the colours of the letters on screen.)	[Colour]
To hold the text picture.	[Hold]

Information
- Each time the button is pressed, the screen will be switched from double screen to single screen.
- Some Teletext pages do not display Link Pages at the bottom of the screen. Press button to display them.
- Some Teletext pages display Sub Pages number at the bottom of the screen (under Link Pages). You can select the sub page by pressing button on the remote control.

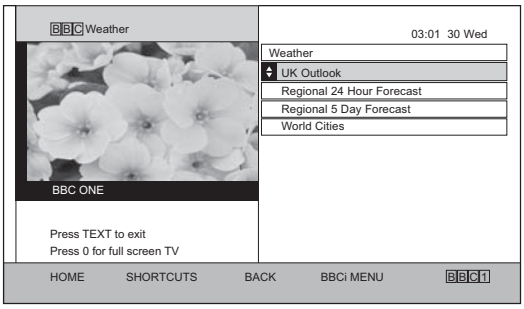
FEATURES (continued)

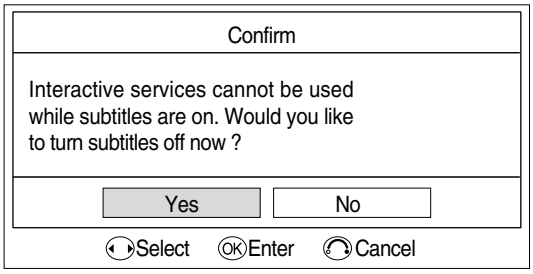
MHEG Digital Teletext [DTT mode only]

This teletext is for L37X01U model in DTT mode.

MHEG Digital Teletext can provide various information with text on the screen.

- To access/exit from Teletext screen, press ⓣ button or **Colour** button depending on the programme being broadcast. Please follow the instructions on the screen when using **Colour** button.
- MHEG Digital teletext and subtitle (DVB) cannot be activated at the same time.
  Subtitle (DVB) should be turned off to activate teletext.
- If you try to activate teletext when subtitle (DVB) is ON, the dialogue box appears to ask you to turn subtitles off as shown.





Operation	Press
This switches the receiver between TV mode and TELETEXT mode.	ⓣ [TV⇔TEXT]
Each of these buttons selects the link page displayed at the lower part of the screen.	▭ ▭ ▭ ▭ [Colour]
This selects items on the screen.	✥ [Item Select]
This jumps to the indicated page if the instructions appear on the screen.	0 ~ 9 [Page Select]

NOTE

When you are asked to press SELECT in the menu of digital teletext, press (OK) button on the remote control.

FEATURES (continued)

Size Switching

DTT/TV/AV signal input

ZOOM button

Each time ⊞ button of the remote control is pressed (or press ⊞ and then ◀▶ button), the screen display size is switched in sequence, and the status will be displayed at the bottom of the screen.

● **Watching Standard Definition Pictures (480i, 480p, 576i, 576p)**

DTT/TV/AV1/AV2/AV3

→ Auto → Full → Zoom → C14:9L → 14:9 Zoom → Panoramic 1 → Panoramic 2 ↩

AV4/AV5

→ 4:3 → Full → Zoom → C14:9L → 14:9 Zoom → Panoramic 1 → Panoramic 2 ↩

HDMI1/HDMI2/HDMI3

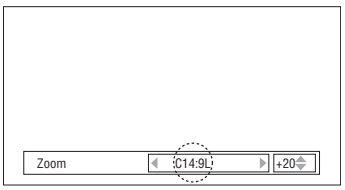
→ Auto → 4:3 → Full → Zoom → C14:9L → 14:9 Zoom → Panoramic 1 → Panoramic 2 ↩

● **Watching High Definition Pictures**

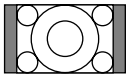
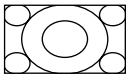
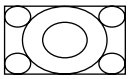
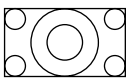
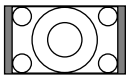
AV4/HDMI1/HDMI2/HDMI3

[1080i/1080p] → Full 1 → Full 2 ↩

[720p] → Full ↩



The image at optimum condition is displayed by selecting display size depending on the current output image as shown below.

Input Signal	Display Screen	Display Size	To display suitable screen as follows.
When Watching Standard Definition Pictures:			
		Auto	Play a image with the suitable format by automatically selecting depending on the picture format or programme being broadcast. Default Zoom setting in the Configuration menu will be selected if WSS signal or size switching signal is not detected in DTT, TV and AV mode.
(4:3 Signal)		4:3	Play a 4:3 image on screen faithfully. Blanking occurs on both sides.
		Panoramic 1	Play a 4:3 image which enlarges horizontal and vertical size of the middle in equal scales, and displays both sides appearing much wider.
		Panoramic 2	The vertical size of Panoramic 1 is reduced so that you can see the whole image, including any subtitles, that might otherwise not be fully visible on the screen.
(Squeeze)		Full	Play a 4:3 image faithfully in the standard vertical size and horizontally squeezed.
(Vista)		Zoom	Play a 16:9 image in 4:3 frame (Vista size) faithfully. *In some case, slight blanking may remain at the top and bottom.
(14:9 Signal)		C14:9L	Play a 14:9 image in 16:9 screen, which is expanded vertically and squeezed horizontally.
		14:9 Zoom	Play a 14:9 image in 16:9 screen, which is expanded vertically.

FEATURES (continued)

Size Switching (continued)

DTT/TV/AV signal input (continued)

Input Signal	Display Screen	Display Size	To display suitable screen as follows.
When Watching High Definition Pictures:			
(16:9 Signal)		Full/Full 1	Play a 16:9 image faithfully showing 95% of the size.
		Full 2	Play a 16:9 image faithfully showing 100% of the size. * In some case, the screen display has unnecessary blanking or noise at the edges.

Information

Aspect ratio represents horizontal: vertical ratio on screen.

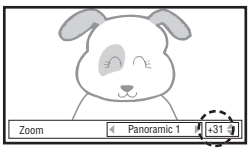
• Position Adjustment

Vertical picture position can be adjusted for **Panoramic 1**, **Zoom**, **C14:9L**, and **14:9 Zoom** mode as follows.

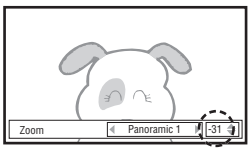
1. Press ⊞ button on the remote control to select position adjustable size.
2. The information display will appear. It includes information of position if available.
3. Adjust the position by ⊕ button.

   Adjustment range of each picture size are as shown below.

   Panoramic 1: -12 to+12
   Zoom: -31 to+ 31
   C14:9L and **14:9 Zoom**: -16 to+ 16



Press▲



Press▼

⚠CAUTION

Using a wide-screen television

- This television has a screen mode selection feature. If an incompatible screen mode is selected to play certain software, such as a TV programme, the image would appear different from the original. Take this into consideration when making screen mode choices.
- Use of the wide feature displaying enlarged pictures in coffee shops, hotel and other establishments for commercial or public viewing purposes could infringe on the copyright holder's right protected by Copyright Law.
- When a normal 4:3 image (not wide screen) is displayed over the entire screen in the Panoramic mode, the peripheral image may disappear partly and/or appear distorted in some cases. Use 4:3 mode to view the image reflecting original intention.

FEATURES (continued)

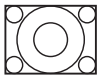
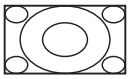
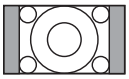
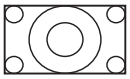
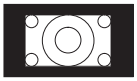
Size Switching (continued)

RGB signal input

You can select suitable size depending on the resolution.

Normal → Full → Real

Display Area Selection Diagram

Resolution	Input signal	Full display	Circular display	
Display		Full	Normal	Real
640 X 480 (VGA) 800 X 600 (SVGA) 1024 X 768 (XGA) 1280 X 1024 (SXGA)				
640 X 400 (VGA) 1280 X 768 (WXGA)				

• In the signal display chart shown above, some compression or stretching has taken place.
• The resolution reflects the input signal display.
• Real cannot be selected in the resolution of 1280 x 1024 (SXGA).

FEATURES (continued)

Multi Picture Mode

Activate in DTT/TV/AV1~5/HDMI1~3 mode

With this feature, you can watch different channels simultaneously on one screen. There are two modes (Split and PinP) in Multi-Picture mode.

1. To activate Multi Picture mode, press ◑ button on the remote control.
- Audio is output from the selected picture with the yellow frame. You can switch the Input modes (DTT, TV, AV1~5, and HDMI1~3) or change channels only on the picture with a yellow frame.

2. To change the selected picture, press ◀▶ button.
- The yellow frame is shifted from A to B back-and-forth.

3. To change the channel of the selected picture, press + P − button.

4. To change the input mode of the selected picture, press INPUT button on the remote control.

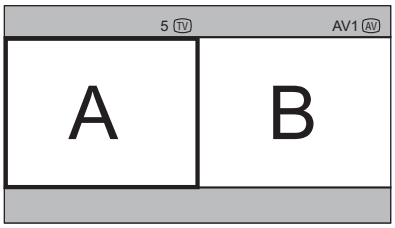
NOTE
- In TV mode, you cannot select the same channels on both sides simultaneously.
- You cannot select the same AV input on both sides simultaneously.
- You cannot select HDMI input on both sides.

5. Only when the 1080i or 1080p signal is received on the left screen (Main-screen), PinP mode is available.
To switch to PinP mode, press ⏮ button. Each time ⏮ button is pressed, the picture mode is changed as below.
2-Picture (Split) ⟷ 2-Picture (PinP)

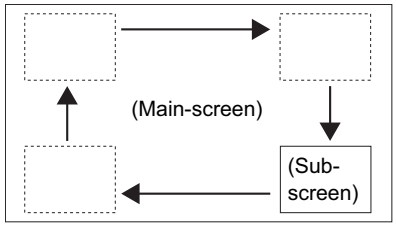
To change the selected picture, press ◀▶ button.
- When the selected picture is the small screen (Sub-screen) in PinP mode, the frame of the sub-screen is shown in yellow.
- When the selected picture is the large screen (Main-screen) in PinP mode, there is no yellow frame shown on Main-screen.

To change the position of the sub-screen in PinP mode, press ▲▼ button.
- The position is changed as shown in the figure on the right.

[Split]



[PinP]



6. To exit from the Multi Picture mode, press ◑ or RETURN button.
Whenever you press ◑ button to activate the Multi Picture mode, it starts from Split mode.

FEATURES (continued)

Multi Picture Mode (continued)

Activate in RGB mode

When you activate the Multi Picture mode in RGB Input, the large screen (Main-screen) is RGB Input. The picture is displayed in PinP mode where the sub-screen is displayed inside of the large screen (Main-screen).

1. To activate Multi Picture mode, press ◑ button on the remote control.
- Audio is output from the selected picture.
  You can switch the Input modes (DTT, TV, AV1~5) or change channels only when the sub-screen is the selected picture.

2. To change the selected picture, press ◀▶ button.
- When the selected picture is the small screen (Sub-screen) in PinP mode, the frame of the sub-screen is shown in yellow.
- When the selected picture is the large screen (Main-screen) in PinP mode, there is no yellow frame shown on Main-screen.

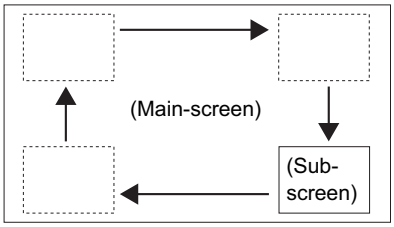
3. To change the channel of the sub-screen, press + P − button.

4. To change the input mode of the sub-screen, press INPUT button on the remote control.

5. To change the position of the sub-screen in PinP mode, press ▲▼ button.
- The position is changed as shown in the figure on the right.

6. To exit from the Multi Picture mode, press ◑ or RETURN button.

[PinP]



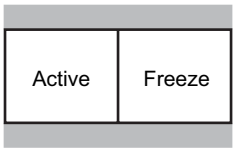
FEATURES (continued)

Picture Freezing

By pressing ⏭ button, you can change to freeze mode easily anytime you like. Press it again to return to normal picture.

It displays 2 pictures from the same source. One is active (left), whilst the other is still picture (right). This is very useful in order to avoid missing something or to make a note of something, such as a recipe.

• This is not available in RGB input mode.



FEATURES (continued)

Photo Input Function

With this Photo Input function, you can enjoy watching Photos from such devices as Digital Still Camera and SD card along with useful features such as Slide Show.

Operating the Photo Input

1. Before operating this function, make sure to turn the power OFF /Standby.

2. Prepare the DSC (Digital Still Camera) / USB card reader/ SD card or MMC as follows.

Digital Still Camera	: Set up with reference to the content about "connecting to PC" in the user's manual of DSC.
USB Card Reader	: Insert memory cards into reader.
SD Card / MMC	: Ensure the card is inserted in the correct direction as indicated near the slot.

3. Connect the USB cable to the input terminal, or insert the SD card /MMC into the slot as shown.

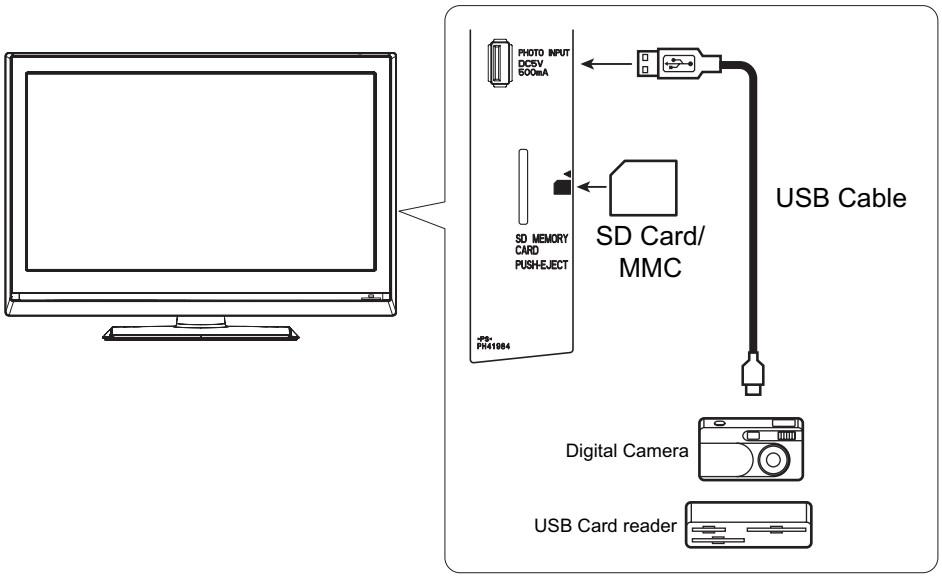
4. Turn ON the TV after the USB cable is connected or the SD card / MMC is inserted.

5. Press ⓟ button on the remote control to activate Photo Input mode.
(Then, turn ON the DSC. Refer to the user's manual of your DSC for the timing.)

6. Each time ⓟ button is pressed, you can switch the mode as follows.

Photo → Normal Screen

Make sure to turn the power OFF/Standby when disconnecting the DSC / USB card reader / SD card or MMC from the set.

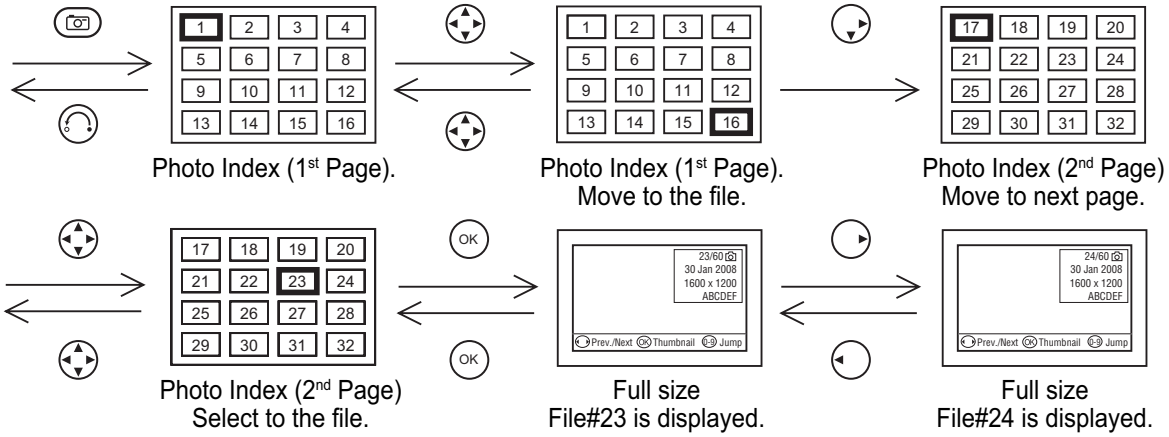


NOTE

- Do not insert SD Card/MMC and USB cable at the same time.
- Do not insert anything other than SD Card/MMC into the slot. It could cause malfunction or damage to the slot. Do not allow children to play around the slot.
- SDHC Memory card is not available.

Photo Input Function (continued)

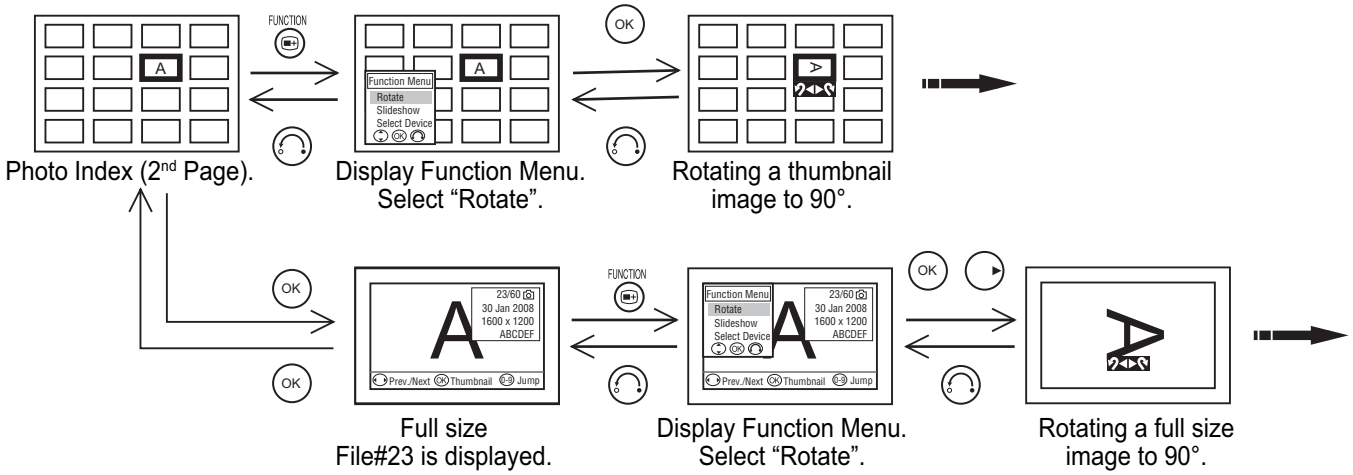
Thumbnail-Size Image (Index) to Full-Size Image



* You can also select the preferred file in both Thumbnail-size and Full-size image by inputting the file number directly with numeric buttons of remote control. If the entered number is wrong, the closest file will be selected automatically.

23

Rotation Function



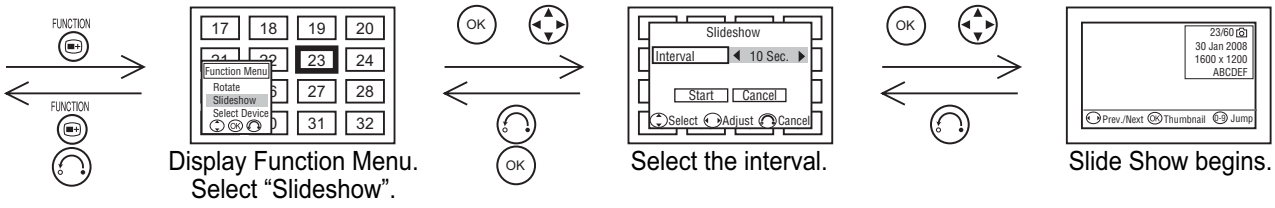
• By using ◄► button, the picture is rotated in the sequence of the following. This returns to the default setting when changing the device of images.

90° ◄► 180° ◄► 270° ◄► 0°

FEATURES (continued)

Photo Input Function (continued)

Slide Show Function



Display Function Menu. Select “Slideshow”.

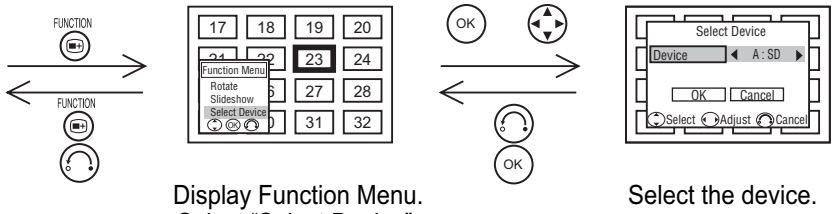
Select the interval.

Slide Show begins.

- After selecting the slide interval [5Sec.→10Sec.→30Sec.], select “**Start**” and press (OK) button to start the slide show.
- You can also start the slide show when displaying the selected full size image by selecting “**Slideshow**” with FUNCTION button.
- Slide Show will start with the selected file.
- You can stop the slide show halfway by pressing (headphones) or (OK) button.

> **NOTE**
> Contrast will decrease automatically to reduce image retention if stationary images such as still photos are left on the screen for more than about 3 minutes. Please note that it is not malfunction.

Selecting Device



Display Function Menu. Select “Select Device”.

Select the device.

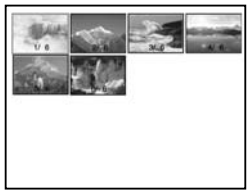
- After selecting a device, select “**OK**” and press (OK) button to start.
- You can also select the device with same procedure when displaying the full size image.

FEATURES (continued)

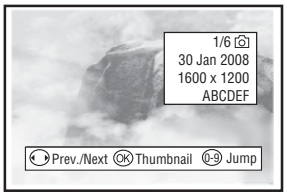
Photo Input Function (continued)

Other

- You can access to Picture menu directly by pressing MENU button during Photo Input mode. You can set up the picture setting only for Photo Input images. Please note that some of the picture menu are not available for Photo Input mode.
- Press OK button whenever you want to return from full size image to index.
- The file information is displayed by pressing i button.



Thumbnail-Size Image



Full-Size Image

To exit from Photo Input...

You can exit from Photo Input when pressing ↩ button in Photo Index mode.

OSD Information

Operation	Message
Normal	no message
Not available media	“No device containing pictures was found.”

Specification

Application	① Digital Still Camera corresponding to DCF standard. ② USB Card Reader with the memory containing pictures had taken by ① camera. ③ SD card/MMC card containing picture had taken by ① camera.	
Photo	Max number of photo file	999
	Max number of pixel*	3072 x 2304 (DCF JPEG format)

* The picture may not be displayed if it is taken with “high-quality” mode, or the file capacity is large.

NOTE

- We do not guarantee that all files meeting the above specifications can be displayed properly.
- As for SD card slot, the supportable capacity is approximately 2GB. (However, this is the rough standard. We do not guarantee the supportable capacity.)
- In case of using USB cable, this may not meet the specifications for all media depending on the performance and specification of the connected devices, such as card readers and digital still cameras.

Photo Input Function (continued)

⚠CAUTION

- In case of copying, viewing or editing a picture by computer, etc., it may not be displayed in this function.
- Do not connect any apparatus other than DSC, USB card reader, and SD card/MMC to the Photo Input connector. It causes a malfunction.
- Do not connect a DSC and USB card reader with USB HUB. Pictures may not be displayed correctly, or it causes a malfunction.
- Certain types of DSC, card readers, or SD card/MMC may not work with this Photo Input function.
- DSC with low battery power may not properly display photos in this function.
- Response time might vary depending on each image contents when switching pages, and loading files.
- The OSD message “No device containing pictures was found.” is displayed in case of the incomplete connection with USB cable or SD card / MMC and connection to a digital still camera or USB card reader without the memory card.
- The functions of the multi picture, CH selection, freeze mode, aspect, mode display, and so on are not available.
- Whilst displaying images, do not remove/insert USB cable and memory card.
- The picture may not be displayed correctly, depending on the connecting device in case of extending the USB cable.
- Do not use this function other than private purposes. It might infringe copyright laws.
- Back up all of the data in the memory card in case if data was lost due to unexpected accident. We do not assume any liability for the losses by misuse or malfunction.

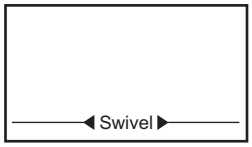
FEATURES (continued)

Power Swivel

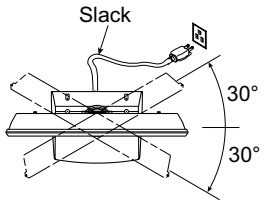
With the Desktop stand, you can adjust the angle of the panel side to side by pressing button on the remote control.

1. Press button on the remote control.
The Swivel Display (as shown in the figure on the right) will appear on the screen.

2. Adjust the angle of the panel with button whilst Swivel Display is on the screen.
The unit will be able to rotate ±30 degrees to each side.



The Swivel Display



⚠CAUTION

- When you use the Power Swivel function, make sure that the Power Cord, cord or chain connected to the wall is loose enough to operate the Swivel function securely.
- Do not put hands or face near the unit whilst operating the Swivel. It could cause personal injury. Beware especially when small children are around the unit.

NOTE

- If the stand cable is not connected to the unit, the message “Not Available” will appear on the screen.
- The Swivel Display will automatically disappear when no operation has been made for a few seconds.

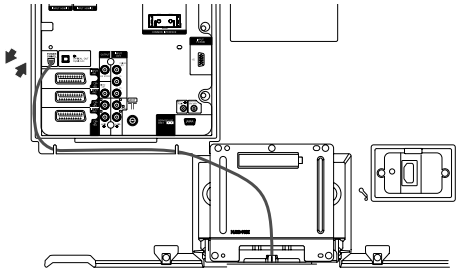
⚠CAUTION

- Do not push the panel with your hands whilst operating the Swivel. It could damage the panel and/or stand.
- Do not allow children to play or hang on the TV. These actions may tip it over, causing personal injury.
- Do not swing the unit back and forth.
- Do not place any fragile objects around the unit. The unit would hit the object(s) during the Swivel operation and could cause the breakage of the objects and/or the stand.
- To operate the Swivel function correctly, place the unit on the stable surface.
- When you use the unit as wall-mounting, disconnect the stand cable from the unit before installation.

Information

About Swivel terminal connection

- To connect the Desktop stand to the unit.
  Connect the designated stand cable to the Swivel terminal on the rear side of the unit.
- To disconnect the stand from the unit.
  Before detaching the stand from the unit, make sure to disconnect the stand cable from the Swivel terminal on the rear side of the unit.



⚠CAUTION

- Turn Off the Main Power of the unit when connecting or disconnecting the stand cable to the unit.

FEATURES (continued)

Audio Switching

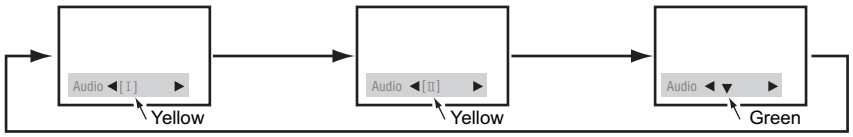
NICAM / Sound Multiplex (including A2) (TV mode)

You can make optimum use of available audio by pressing **I/II** button of remote control. Audio can be switched only if receiving NICAM and sound multiplex signals; otherwise, pressing this button will have no effect, such as when only mono sound is received.
These can be divided into two main categories: Bilingual/Dual Sound broadcast and Stereo broadcast.

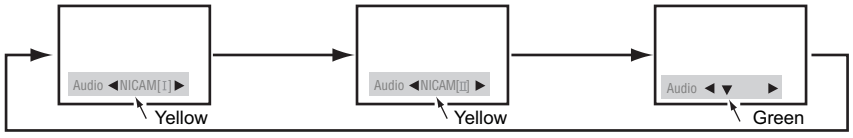
Bilingual/Dual Sound broadcast

Bilingual broadcast is the broadcast available on the main and sub languages, whilst dual sound broadcast is available on the primary and secondary sounds; for example, some sports programmes contain broadcast commentary on a game as primary sound, and a commentary about a team as the secondary.
When bilingual programme is received, sound mode display appears in yellow as shown. Also, when receiving NICAM signals, NICAM display will appear.
Each time **I/II** button is pressed, the display is switched in the sequence of following.

Sound multiplex signal received



NICAM signal received

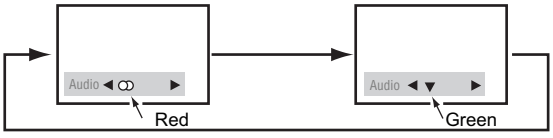


[**I**]…Main language/Primary Sound
[**II**]...Sub language/Secondary Sound
▼…force mono: This selects main language or primary sound.

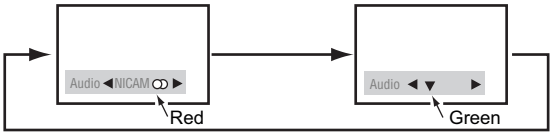
Stereo broadcast

With stereo broadcast, you can enjoy different sound from either side.
When a stereo programme is received, sound mode display appears in red as shown.
NICAM display will appear.
Press **I/II** button to switch between stereo and mono sound.

Sound multiplex signal received



NICAM signal received



∞ ...Stereo
▼....Force Mono

NOTE

- Please select ▼(force mono) in case of poor reception, noise, poor stereo sound due to signal condition so that you can receive a clear mono sound.
- ▽ represents the Mono broadcast.

FEATURES (continued)

Power Save Mode

When AV/RGB input is selected

• You are provided with the function to save power consumption when no signal is detected in AV/RGB input. Set to On in "**Video Power Save**" from **Configuration** menu, which leads to the power save mode in AV4/HDMI1/HDMI2/HDMI3/RGB and the Standby mode in other AV input. (Please see the table below for details) Refer to 34 about "**Video Power Save**".

	When no signal is detected		**When signal is input during On in "Video Power Save"**
	Condition	Indicating Lamp	
AV4,HDMI1, 2, 3, RGB	Power Save	Pulsing Blue	Turns On automatically.
AV1, 2, 3, 5	Standby	Red	Remains as Standby mode.

FEATURES (continued)

DVD Player / STB Selection

You can use this remote control to operate DVD Player and Set Top Box of Hitachi or other manufacturers as well as this set.

Set Up

Example: Hitachi DVD 2

1. Set up the manufacturer.
Hold down DVD button and press 1 button.

2. Set up the manufacturer type.
Release the 1 button whilst keeping DVD button depressed. Then press 2 button.

3. Confirm the setting.
After setting the manufacturer and type, press the **Sub Power** button on the remote control.
If the DVD does not switch On, repeat step 1 and 2 using other manufacturer types as listed.

<"DVD" Selection>

Manufacturer of DVD Player	Set Manufacturer	Set type	Manufacturer of DVD Player	Set Manufacturer	Set type
Hitachi	DVD 1	1 ~ 3	RCA	DVD 0	1
FUNAI	DVD 2	1	Mitsubishi	DVD ◑	1
Pioneer	DVD 3	1 ~ 6	ONKYO	DVD RED	1 ~ 3
Panasonic	DVD 4	1 ~ 4	ZENITH	DVD GREEN	1
TOSHIBA	DVD 5	1 ~ 4	THOMSON	DVD YELLOW	1
Philips	DVD 6	1 ~ 2	SHINCO	DVD BLUE	1
JVC	DVD 7	1	SKYWORTH	DVD ▤	1
SAMSUNG	DVD 8	1	BUBUKO	DVD ▤	1
Sony	DVD 9	1 ~ 4	DENON	DVD ▭	1 ~ 2
Sharp	DVD ⏭	1 ~ 2	YAMAHA	DVD ▤	1 ~ 2

<"SAT" Selection>

Manufacturer of STB Player	Set Manufacturer	Set type
Hitachi	SAT 1	1 ~ 2
TOSHIBA	SAT 2	1
DGTEC	SAT 3	1
Panasonic	SAT 4	1

NOTE

- Please note that not all models of the listed manufacturers can be operated using this remote control.
- When you replace remote control batteries, the settings may be changed. In that case, set up the manufacturer and type again.

Operation Procedure

When you use the remote control for DVD player or Set Top Box of Hitachi or other manufacturers, press DVD button for DVD player or SAT button for Set Top Box.
You can use the buttons highlighted in the figure on the right. The DVD or SAT button blinks in red once after you press any usable button on the remote control for DVD player or Set Top Box.

NOTE

The remote control buttons may not be available depending on equipment.

Usable buttons for DVD Player

Usable buttons for Set Top Box

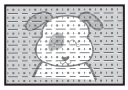
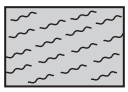
TROUBLESHOOTING

Before calling service technician, check the following tables first. If the problem is not be solved with the suggested procedures, contact your local dealer. For your safety, NEVER try to repair the product by yourself.

When Following Messages Appear on Screen

Message	Condition / Action	Page
Power saving	This indicates it is in Power Save mode. The indicating lamp pulses Blue or lights Red.	23, 34, 72
No sync. signal	The unit cannot detect any signals from any input terminals. • Check if the cable is connected correctly and firmly. • Check if the power of any external equipment is ON. • Check if the input selection matches the connection terminal. • Check if the PC is in Power Save mode or not.	16 ~ 20
Not available	This shows when the selected operation is not available.	
Weak signal or channel not available. Check aerial.	• Check aerial lead if it is disconnected / damaged / misaligned. • Check with your dealer if it is out of signal area or not. (in DTT mode)	
Encrypted Channel	• Check if the common interface module inserted correctly. (in DTT mode)	18, 45

Symptom and Check List

Symptoms		Check list	Page
No picture - no sound		• Check the Indicating lamp status. • Check the connection of the Power Cord and/or other cables. • Check if the Main Power of the unit or external equipments is ON. • Check if the TV mode is selected. • Check if the TV is in “Standby mode” or “Power Save mode”. • Adjust the values in “Picture menu” and “Audio menu”.	15 ~ 23, 27, 72
Snowy picture-poor sound		• Check the aerial connection and direction. • The TV station may have broadcast difficulties. Try another channel.	15
Multiple images-normal sound		• Check the aerial connection and direction. • Fine tuning the TV. • Check the connection of the external equipments. • The TV station may have broadcast difficulties. Try another channel.	15 ~ 20, 32
Intermittent interference		• Check if the source of interference is shielded well. • Remove those kinds of electrical devices away from the TV.	
Normal picture, but no sound		• Check the volume level. • Check if the button has been pressed or not. • Make sure that the headphone is NOT connected. • Check the connection of the external equipments.	26
No picture - normal sound		• Check the value level of “Brightness” and “Contrast” in “Picture Menu”. • Check if Radio broadcasting channels are received. (DTT mode only)	36
The remote control does not work.		• Check if the batteries are installed correctly. • The batteries might be exhausted. Replace them with new ones. • Remove all the obstructions in front of the sensor window on the unit. • Check if you select the correct function by Function Select (TV/DTT, DVD and SAT) buttons on the remote control. • Check if the buttons of the control panel can work.	11, 12
Normal picture but no colour-normal sound		• Check the connection of the external equipments. • Check the “Colour System” in “Initial Setup” menu. • Check the “AV Input” in “Initial Setup” menu.	16 ~ 20, 30

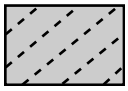
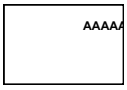
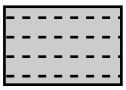
TROUBLESHOOTING (continued)

Symptom and Check List (continued)

Symptoms	Check list	Page
• No picture The Indicating lamp → Off	• Check if the Power Cord is plugged into the socket firmly. • Check if the Main Power is On.	22, 23
• No picture The Indicating lamp → Pulsing blue It means that the unit is in “Power Save mode”.	• Check if all the cables of the external equipments are connected correctly and firmly. • Check if the power of the external equipments is On. • Check if the TV/AV mode has been selected correctly. • Check if the PC is in Power Save mode or not. • Refer to “Power Save mode” and “When following messages appears on the screen”.	72
• No picture The indicating lamp → Blue	• Check if the signal cable is connected correctly and firmly. • Adjust the level of Brightness and Contrast lower.	16 ~ 20
• The top of the unit and surface of the panel heat up.	• It may happen when you use the unit for a long time. Turn off the Main Power of the unit for a whilst. Please note that this is not malfunction.	
• When the VCR is in special playback features (Fast Forward or Rewind), the screen gets dark and cannot see the image at all.	• It could happen when the VCR is connected to Component output, such as 480i. This is not malfunction. • Try Composite output or S-video output and check the picture again.	
• Screen display size cannot be switched correctly.	• The display size is fixed at “FULL” when the receiving signals are 720p/60Hz or 720p/50Hz.	59 ~ 61
• Time information is incorrect.	• Adjust time by using “Time Offset” of Function Menu.	44
• Image cannot be displayed from HDMI1, 2 or 3.	• Check if the cables are connected correctly. • Check the output format of the equipments. • (Please refer to “Signal Input” and “Recommended Signal List”.)	77 ~ 79
• Cannot display the image from “Photo Input function”.	• Check the connecting equipments and image format. (Please refer to “Photo Input function”.)	65, 68, 69
• No Picture or sound is output. (DTT mode only)	• It might occur because it is tuned to radio or MHEG digital teletext channel. Return to another channel.	58
• Forgotten lock key. (DTT mode only)	• Re-install channel to cancel channel lock. • Reset the lock key.	31, 45
• Due to the bad reception, block noise interferes during DTT mode. (DTT mode only)	• Check the aerial system to improve signal quality.	15
• The message “The receiver is looking for new channels. Press Return button to cancel.” appears during standby mode. (DTT mode only)	• If the broadc asting changes the service, the receiver starts searching the new service during standby mode regardless of the setting. Please note this is not malfunction.	

TROUBLESHOOTING (continued)

Symptom and Check List (continued)

Symptoms		Check list	Page
• The image on the screen is moving in an oblique direction. (RGB mode only)		• Adjust “Horizontal Clock” and “Clock Phase”.	30
• The coarse horizontal stripes could be seen in full-display mode. (RGB mode only)		• Adjust “Horizontal Clock”.	30
• The part of the image is lacking. (RGB mode only)		• Try “Auto Adjust”.	30
• The horizontal stripes are moving vertically with flickering screen. (RGB mode only)		• Check the Signal status of the PC by pressing (i+) button on the remote control.	
• When the characters are displayed on the whole screen, the vertical stripes appear and some of the characters are blurred. (RGB mode only)		• Try “Auto Adjust”. • If the display condition is not improved with Auto Adjust, adjust “Horizontal Clock”.	30
• When the letter string is displayed in full-screen, all of the characters on the screen are blurred. (RGB mode only)		• Try “Auto Adjust”. • If the condition is not improved with Auto Adjust, adjust “Clock Phase” till you get clearest image.	30
• When the small patterns are displayed on the screen, the entire screen is flickering. (RGB mode only)		• Try “Auto Adjust”. • If the condition is not improved with Auto Adjust, adjust “Clock Phase” till you get flicker-free display.	30
• Image cannot be displayed in the correct position. (RGB mode only)		• Press (i+) button to check if the input signal of the displayed image is compatible with the specification of the television.	30, 77, 79

PRODUCT SPECIFICATIONS

SPECIFICATION		
Panel	Display dimensions	Approx. 37 inches (820 (H) x 461 (V) mm, diagonal 941 mm)
	Resolution	1920 (H) x 1080 (V) pixels
Net dimensions		including Stand: 927 (W) x 683 (H) x 366 (D) mm excluding Stand: 927 (W) x 624 (H) x 115 (D) mm
Net weight		including Stand: 25.4kg excluding Stand: 21.0kg
Ambient conditions	Temperature	Operating : 5°C to 35°C, Storage : 0°C to 40°C
	Relative humidity	Operating : 20% to 80%, Storage : 20% to 90% (non-condensing)
Power supply		AC220 - 240V, 50Hz
Power consumption/ at standby		175W / < 0.8W
Audio output		speaker total 20W
(VIDEO input)		
Input terminals		AV1 : composite video input terminal (SCART) S video input terminal (SCART) L/R audio input terminal (SCART) AV2, 3 : composite video input terminal (SCART) RGB video input terminal (SCART) L/R audio input terminal (SCART) AV4 : composite video input terminal (RCA) component video input terminal (RCA) L/R audio input terminal (RCA) AV5 : composite video input terminal (RCA) S video input terminal (Mini DIN) L/R audio input terminal (RCA) HDMI 1, 2, 3 : HDMI input terminal Audio input terminal (3.5mm Stereo Mini Jack) PC (RGB) input (D-sub 15-pin connector) Photo Input : Photo Input terminal/SD card slot
Input signals		Composite video: PAL, SECAM, NTSC3.58, NTSC4.43, PAL60 Component video: 480i, 576i, 480p, 576p, 720p/50, 720p/60, 1080i/50, 1080i/60 HDMI: 480i, 576i, 480p, 576p, 720p/50, 720p/60, 1080i/50, 1080i/60, 1080p/50, 1080p/60, 1080p/24
Output Signal		OUTPUT (MONITOR): composite video monitor-output terminal (RCA) OUTPUT (MONITOR): L/R audio monitor- output terminal (RCA) OUTPUT (HEADPHONE): L/R audio monitor- output terminal (3.5mm Stereo Mini Jack) OUTPUT (SUB-WOOFER):Woofer output terminal (RCA) AV1 : composite video output terminal (SCART) L/R audio output terminal (SCART) AV2, 3 : composite video output terminal (SCART) L/R audio output terminal (SCART) Optical Out: PCM/Dolby® Digital
(RF input)		
Input terminal / Receiving range		ANT : 75Ω Unbalanced / 40~870MHz
RF Video System		PAL B, G, H / I / D, K SECAM B, G / K1 / L, L' / D,K DVB-T MPEG2
(RGB input)		
Input terminals		Analogue RGB input terminal (D-sub 15-pin) Audio input terminal (3.5mm Stereo Mini Jack)
Input signals		0.7 V/1.0 Vp-p, analogue RGB (Recommended Signal)
Sync signals		H/V separate, TTL level [2KΩ]

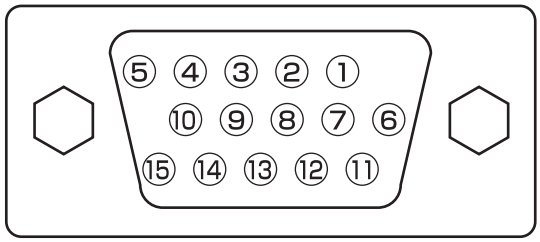
• The unit takes at least 30 minutes to attain the status of optimal picture quality.

PRODUCT SPECIFICATIONS (continued)

Signal Input

RGB terminal (D-sub 15-pin connector)

Pin	Input signal
1	R
2	G
3	B
4	No connection
5	No connection
6	R.GND
7	G.GND
8	B.GND
9	No connection
10	GND
11	No connection
12	[SDA]
13	H. sync
14	V.sync. [V.CLK]
15	[SCL]



S-input connector pin specifications

Pin	Input signal
1	Y
2	Y-GND
3	C
4	C-GND
Frame	GND

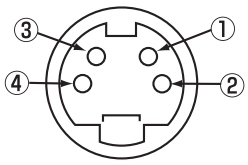
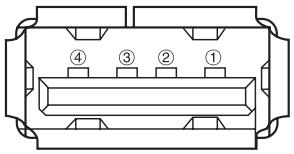


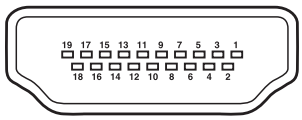
Photo-input connector pin specifications

Pin	Input signal
1	5V
2	DM
3	DP
4	GND



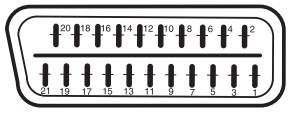
HDMI connector pin specifications

Pin	Input signal	Pin	Input signal
1	TMDS Data2+	11	TMDS Clock Shield
2	TMDS Data2 Shield	12	TMDS Clock-
3	TMDS Data2-	13	CEC
4	TMDS Data 1+	14	Reserved(N.C. on device)
5	TMDS Data1 Shield	15	SCL
6	TMDS Data1-	16	SDA
7	TMDS Data0+	17	DDC/CEC Ground
8	TMDS Data0 Shield	18	+5V Power
9	TMDS Data0-	19	Hot Plug Detect
10	TMDS Clock+		



SCART connector pin specifications

Pin	Input signal	Pin	Input signal
1	AUDIO OUT (RIGHT)	12	Not Used
2	AUDIO IN (RIGHT)	13	RGB-R GND
3	AUDIO OUT (LEFT / MONO)	14	GND
4	AUDIO GND	15	RGB-R / S.VHS CHROMINANCE IN
5	RGB-B GND	16	BLANKING SIGNAL
6	AUDIO IN (LEFT / MONO)	17	COMPOSITE VIDEO GND
7	RGB-B IN	18	BLANKING SIGNAL GND
8	AUDIO / RGB SWITCH / 16:9	19	COMPOSITE VIDEO OUT
9	RGB-G GND	20	COMPOSITE VIDEO / S.VHS LUMINANCE IN
10	Not Used	21	GND / SHIELD (CHASSIS)
11	RGB-G IN		



PRODUCT SPECIFICATIONS (continued)

Recommended Signal List

With HDMI input

No.	Signal mode			Horizontal frequency (kHz)	Dot clock frequency (MHz)	Remarks
	Signal Name	Resolution	Vertical frequency (Hz)			
1	576i	720(1440) X 576	50.00	15.63	27.00	EIA/CEA-861B
2	480i	720(1440) X 480	59.94	15.73	27.00	EIA/CEA-861B
3	576p	720 X 576	50.00	31.25	27.00	EIA/CEA-861B
4	480p	720 X 480	59.94	31.47	27.00	EIA/CEA-861B
5	1080i/50	1920 X 1080	50.00	28.13	74.25	EIA/CEA-861B
6	1080i/60	1920 X 1080	60.00	33.75	74.25	EIA/CEA-861B
7	720p/50	1280 X 720	50.00	37.50	74.25	EIA/CEA-861B
8	720p/60	1280 X 720	60.00	45.00	74.25	EIA/CEA-861B
9	1080p/50	1920 X 1080	50.00	56.25	148.50	EIA/CEA-861B
10	1080p/60	1920 X 1080	60.00	67.50	148.50	EIA/CEA-861B
11	1080p/24	1920 X 1080	24.00	27.00	74.25	EIA/CEA-861B

With RGB input

No.	Signal mode			Horizontal frequency (kHz)	Dot clock frequency (MHz)	Remarks
	Signal Name	Resolution	Vertical frequency (Hz)			
1	VGA	640 X 400	70.08	31.47	25.18	
2		640 X 480	59.94	31.47	25.18	
3	VESA	640 X 480	72.81	37.86	31.50	
4		640 X 480	75.00	37.50	31.50	
5		640 X 480	85.01	43.27	36.00	
6		800 X 600	56.25	35.16	36.00	
7		800 X 600	60.32	37.88	40.00	
8		800 X 600	72.19	48.08	50.00	
9		800 X 600	75.00	46.88	49.50	
10		800 X 600	85.06	53.67	56.25	
11		1024 X 768	60.00	48.36	65.00	
12		1024 X 768	70.07	56.48	75.00	
13		1024 X 768	75.03	60.02	78.75	
14		1280 X 1024	60.02	63.98	108.00	
15	Macintosh	640 X 480	66.67	35.00	30.24	
16		832 X 624	74.55	49.72	57.28	
17		1024 X 768	74.93	60.24	80.00	
18	W-XGA	1280 X 768	59.876	47.776	79.50	WXGA Mode : 1280x768

- The type of video board or connecting cable used may not allow for correct displays adjustment of Horizontal Position, Vertical Position, Horizontal Clock and Clock Phase.
- The unit differentiates the signal modes according to the horizontal and vertical frequencies and the horizontal and vertical sync signal polarities. Note that different signals having all these elements alike may be handled as the same signal.

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